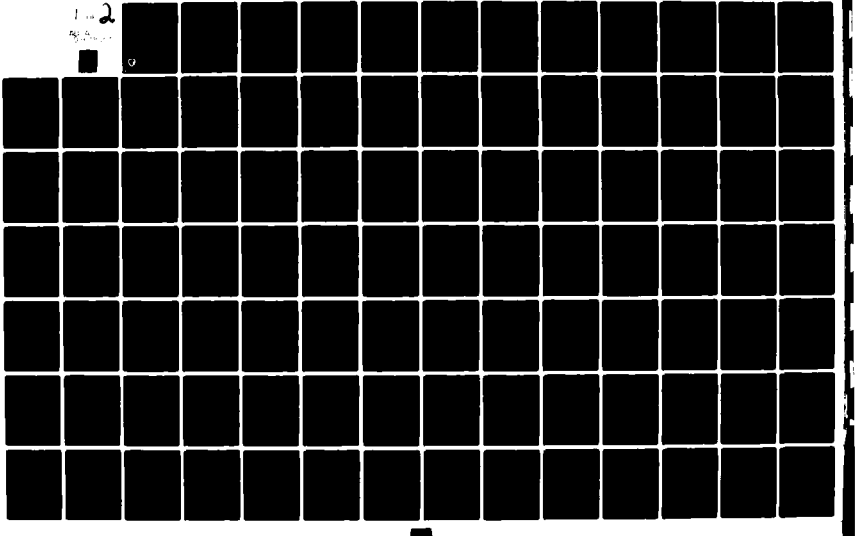
AD-A097 527 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
WEATHER SCENARIOS FOR CENTRAL GERMANY.(U)
FEB 81 B T MIERS
UNCLASSIFIED ERADCOM/ASL-TR-0078 NL



LEVEL II

(12)

AD

Reports Control Symbol

OSD-1366

ASL-TR-0078

AD A097527

WEATHER SCENARIOS FOR CENTRAL GERMANY

FEBRUARY 1981

By

Bruce T. Miers

Approved for public release; distribution unlimited

US Army Electronics Research and Development Command

ATMOSPHERIC SCIENCES LABORATORY

White Sands Missile Range, NM 88002

NOTICES

Disclaimers

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.

Disposition

Destroy this report when it is no longer needed. Do not return it to the originator.

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER ASL-TR-0078	2. GOVT ACCESSION NO. AD-A097527	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) WEATHER SCENARIOS FOR CENTRAL GERMANY.		5. TYPE OF REPORT & PERIOD COVERED R&D Final Report.
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) Bruce T. Miers		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS US Army Atmospheric Sciences Laboratory White Sands Missile Range, NM 88002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS DA Task No. 1L162111AH71-E0
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research and Development Command Adelphi, MD 20783		12. REPORT DATE February 1981 13. NUMBER OF PAGES 151
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) ERADCOM/ASL-TR-0078		15. SECURITY CLASS. (of this report) UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Climatology	European Weather
Clouds	War Games

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

A weather scenario can be defined as a realistic synthesis of sensible weather conditions over a specified area and time frame. A weather scenario should not be confused with operational weather forecasts provided by weather support personnel. The need for realistic weather to be introduced into war gaming models has been the impetus for developing weather scenarios for central Germany. Factors considered in developing these scenarios were: (1) latitude, (2) elevation, (3) terrain features, (4) distribution of land and

DD FORM 1 JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOLETE

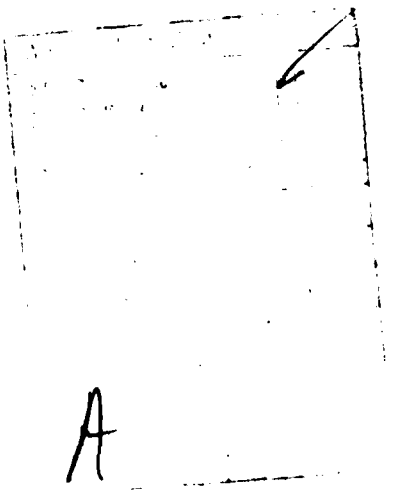
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

20. ABSTRACT (cont)

water, (5) pressure center paths, (6) ocean currents, (7) air mass transport, and (8) upper level winds. Although this report contains meteorological terminology, the scenarios are easily understood and have been used effectively by the nonmeteorologist. These scenarios have been provided to the US Army Concepts Analysis Agency and the US Army TRADOC Systems Analysis Activity.

SUMMARY

The essence of this report is contained in the appendix. The scenarios discussed have been used in war gaming exercises and cost effective studies of military electro-optical devices. Scenarios presented in the appendix should not be confused with operational weather forecasts and should not be considered representative of any other area of Germany besides the FOFEBA region shown. Meteorological factors used in the scenario development are the standard parameters found in most weather records plus a knowledge of the most probable synoptic situations and air mass characteristics.



A

CONTENTS

1. INTRODUCTION

The increased use of optical, infrared, and microwave observing and transmitting devices by the military community has resulted in a greater demand for information on atmospheric gaseous molecules and particulates since these molecules and particulates (dusts, hazes, smokes, fogs, cloud droplets, and precipitation) affect the propagation of radiation. The types and sizes of these atmospheric constituents and the wavelengths of the radiation determine their influence. In addition, climatological data are used in cost effective studies of electro-optical devices and war gaming models.

Currently the Department of Defense is using numerous battlefield simulation models which vary in complexity. Modelers are continually attempting to make their models realistic; therefore, climatological scenarios are required to add realism to their war gaming exercises. The scenarios presented in this report were developed as an outgrowth of this requirement to add realistic weather to war game models. These scenarios have been provided to the US Army Concepts Analysis Agency and the US Army TRADOC Systems Analysis Activity.

2. GEOGRAPHIC SETTING

The FOFEBA (forward of the forward edge of the battle area) (figure 1) is bounded by 9°30' E and 11°00' E longitudes and 50°30' N and 51°30' N latitudes. This area is generally known as part of the central German highlands, namely, the Hessian Highlands and the Thüringer Forest and Basin. The area has a diversified topography in that there are many winding valleys with streams and mountainous fringes. These features produce a variety of natural subregions with climatic features of their own. In the Thüringer Forest there are several mountain peaks above 900 m mean sea level (msl), while the Hessian Basin consists of predominantly low rolling hills (some elevations are less than 200 m). Along the elevated border between East and West Germany there are high hills (Wasserkuppe 921 m) with highland landscapes greatly demarcated along the Werra and Fulda Rivers. The orientation (southeast to northwest) of the Thüringian Forest represents an effective barrier facing the steady westerly winds. The Harz Mountains, north of the area, are also an effective barrier for the westerly winds. No area in the United States is analogous to the FOFEBA area of Germany, but central Pennsylvania is somewhat similar.

The meteorological reporting stations near and within the area are located in unusual geographic settings and are representative of only a small area around the station. Observations taken at these stations or climatological data derived from these observations must be used with great care and should be considered representative of only a small area around the station.

3. GENERAL CLIMATOLOGY OF THE AREA

The Gulf Stream and its extension, the North Atlantic Current, provide a great source of heat for northern Europe. The result of these currents and ocean circulations is unusually warm water off the northwest coast of Europe throughout the year. The prevailing westerly winds produce onshore flow resulting in a significant influence on the climate of north-central Europe. Winter temperatures, for instance, are at least 10 degrees warmer than

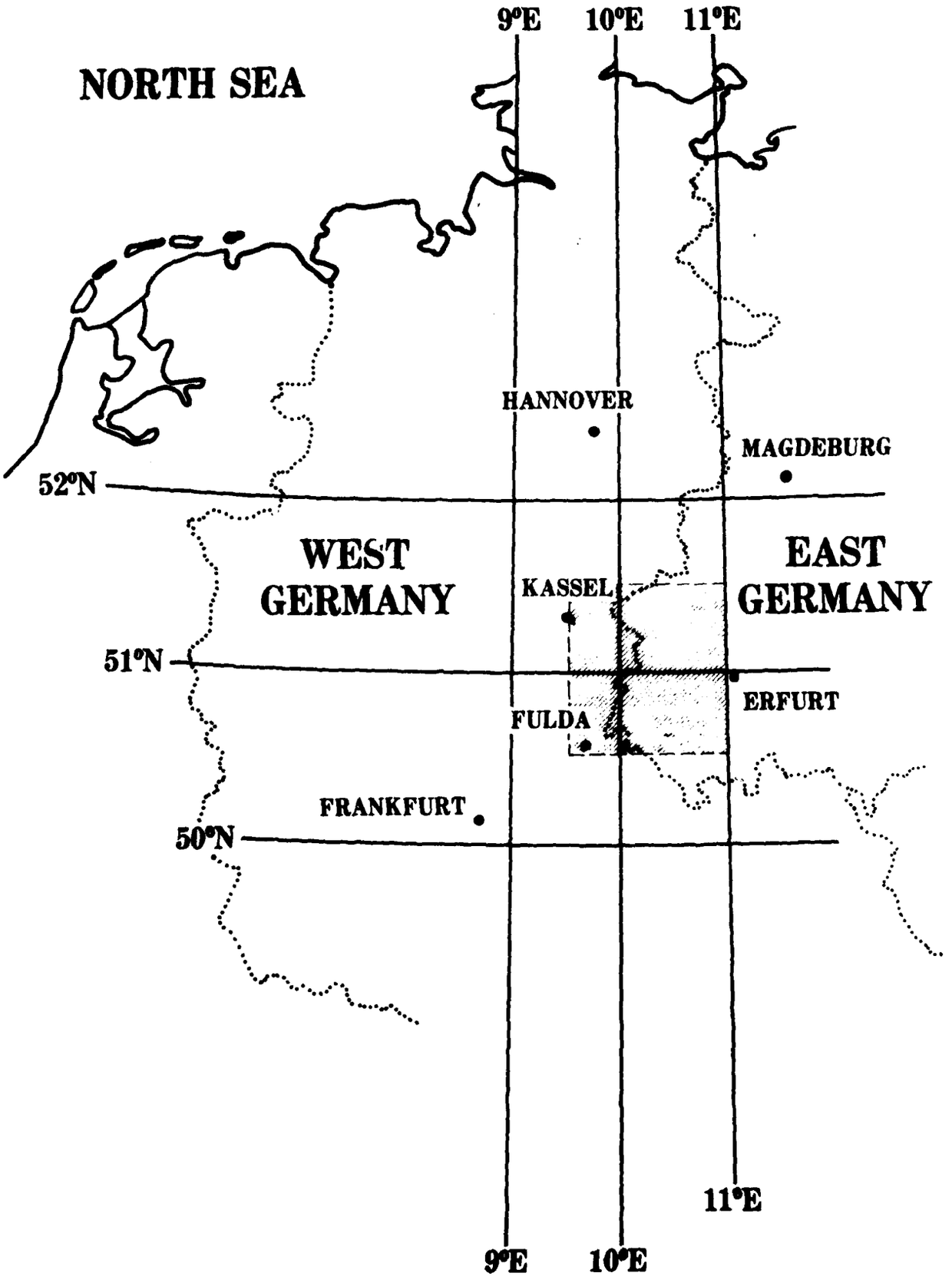


Figure 1. Weather scenarios were developed for the hatched area.

comparable latitudes in North America. Generally, maritime air masses dominate the weather of central Europe.

The outstanding characteristic of air masses that arrive over Europe is the modification undergone by these air masses during their travels from their source regions.[1] This modification process is the reason that Europe is considered a transition zone for air masses. Usually these air masses have had long trajectories over the North Atlantic or the Siberian land mass, resulting in extensive modification of their original characteristics.

During winter, the air that moves over Europe north of 45° N often has the following trajectories. Air on a path from the Greenland area reaches Europe as a seasonably cool, unstable air mass because of its initial low temperature as arctic air and because of its comparatively short path over open water. Continental polar (cP) air that leaves North America and travels southeastward and then northeastward into Europe is modified by the warm ocean surface, and becomes a maritime polar (mP) air mass. This air mass is characterized by warm temperatures, high relative humidities, and a high frequency of cloudiness. The winter source region of cP air for central Germany is eastern Europe and Siberia.[2] When this air mass moves from its source region to central Germany, heat and moisture are absorbed from the underlying surface resulting in low temperatures and stratocumulus clouds.

During the summer, four major air mass types dominate the central German region. These air masses are mP, mT (maritime tropical), cP, and cT (continental tropical). When mP air is overland, heating produces an increasingly unstable air mass. Cumuliform clouds and thundershowers are common occurrences in this situation. Modified mT air is observed in the summer when the Atlantic subtropical anticyclone extends across Europe. This air mass yields higher temperatures and greater instability than the mP air mass. cP air is characterized by moderately low temperatures and low specific humidities. All cT air masses over central Germany are very warm and convectively unstable, resulting in cumulus clouds and thunderstorms.

In the FOFEBA, orographic influence on precipitation is greatest in the winter season. The windward side of the mountains in the area experiences extensive cloudiness, precipitation, and fog; while the lee side (near Erfurt) is warmer, drier, and sometimes windier than normally expected.[3] Additionally, the valleys of the FOFEBA are frequently shrouded with fog. The vertical distribution of fog in the area shows the three-dimensional structure of the climate. Radiation fog fills the valleys almost to the top of the ground inversion. Above the fog, there is a zone of low fog incidence which reaches to the base of the low stratus. This low stratus, especially in

---

[1]B. Haurwitz and J. M. Austin, 1944, Climatology, McGraw- Hill, New York and London, 410 pp

[2]M. Geb, 1971, "Neue Aspekte und Interpretationen Zum Luftmassen und Frontenkonzept," Meteor Abb, 109, No. 2

[3]M. Schuepp and H. Schirmer, 1977, World Survey of Climatology Vol 6, C. C. Wallen, Editor, Elsevier Scientific Publishing Company, Amsterdam

winter, obscures the tops of the higher terrain. Often supercooling in combination with strong winds causes rime or clear icing which is detrimental to low-level aircraft operations. The base of these clouds usually represents the base of the precipitating cloud associated with inclement winter weather. Thus, low elevations have a relatively high frequency of radiation fog occurrences with a decrease of fog frequency above the ground inversion; whereas at the base of the stratus, the fog frequency jumps discontinuously (crest clouds). Wasserkuppe, at 921 m msl, in the southwest area of the FOFEBA is an excellent example of where this weather situation occurs.

Precipitation in the FOFEBA varies from 1000 mm per year on the west slopes of the Thüringer Forest to near 500 mm in the Erfurt industrial region. This difference in precipitation is due to the orientation (southeast to northwest) of the mountains and the accompanying rain shadow effect. The rain shadow effect extends into the valleys of the Saale and Unstrut Rivers where some portions of the area have annual rainfall amounts of less than 500 mm per year.

Since Europe lies in the band of midlatitude westerlies, the mean windflow at most levels has a westerly component. Winds are relatively light below 3000 m msl. However, local topographic effects do enhance the winds at certain times. Winter is the season of most frequent strong winds, and summer is the quietest season. Low-level windflow over this area may cause turbulence of greater intensity than the same speeds might over smoother terrain.

4. SOME TYPICAL WEATHER SITUATIONS

At least 28 large-scale weather types have been identified over Germany.[4] Although German weather is generally characterized as highly variable (due to the lack of a major mountain barrier), there are many examples of seemingly unusual weather patterns that prevail for extended periods of time. Among these examples are: (1) persistent troughs over Europe leading to extensive flooding, especially in the mountains of East Germany and Czechoslovakia; (2) trough passages over northern Germany associated with intense cyclones that cause considerable wind damage; (3) persistent anticyclones with a low subsidence inversion, especially in the fall, sometimes causing extensive thick fog that causes major delays in, and rerouting of, air traffic as well as bringing road traffic to a standstill; (4) cutoff lows over Germany accompanied by light to heavy rain (freezing rain or snow depending upon season), poor visibilities, and low cloud ceilings; (5) prolonged drought conditions associated with blocking anticyclones that extend into Europe; and (6) invasions of mP air into central Germany with northwesterly flow and moderate cyclonic upper-flow conditions which tend to produce cloudiness that often leaves northern Germany clear and starts abruptly along the northern foothills of the Harz and Taunus Mountains.

Figures 2, 3, 4, and 5 are surface weather maps that depict 4 of the 28 large-scale weather situations over Germany.[5] Figure 2 shows a low center over the

---

[4]Aerospace Science Division, 1968, Catalogue of European Large Scale Weather Types, Headquarters, Second Weather Wing, Aerospace Science Division, 68 pp

[5]Department of the Air Force, Headquarters, Second Weather Wing, 1970, European Theater Weather Orientation, APO New York 09332, 500 pp, AD 876370

North Sea moving slowly northeastward. This situation produces a series of troughs, approximately 4 to 6 h apart, moving about 10 to 15 m/s from west to east across central Europe. Scattered rainshowers and thunderstorms mostly north of 50° N accompany the system. When the low center moves between northern Denmark and southern Norway, cool air is advected into Germany. This cool air mass develops low clouds and rain lasting for 24 to 48 h depending on the amount and continuation of the advection. During the winter months, this situation brings cold, moist air and moderate snow (25 to 75 mm in 24 h).

Figure 3 depicts a closed low in the Ligurian Sea. Often this system remains stationary for several days before moving across northern Italy into the Gulf of Venice and then across Yugoslavia and Austria. During movement of the system, moisture is constantly transported into central Germany on the backside of the low, creating warm fronts or troughs. These troughs move northwestward, extending a continuous rain pattern from southern Germany into the FOFEBA area. During the winter this weather pattern usually produces the heaviest snowfalls.

Figure 4 is a summer situation in which a weak wave on the polar front enters western France, curves northeastward, passes over central Germany, and continues an eastward path. Precipitation begins in central Germany well in advance (12 to 18 h) of the approaching low.

Figure 5 shows an intense Siberian high pressure center. When this system occurs, it brings cold, dry arctic air into central Germany. The first 24 to 48 h of this condition bring low stratus clouds and light snow during the daytime and fog at night and in the mornings. Often a cold front forms over eastern Germany. After the air mass has been modified, very cold temperatures and clear to scattered cloud conditions are present. Many ice crystals are observed during the night and morning hours. When this pattern occurs during the summer, extensive fog, poor visibilities, and sometimes stratus clouds occur as a result of the nighttime radiation. However, visibilities usually improve by noon and scattered cumulus clouds form in the afternoon.

5. SCENARIO DEVELOPMENT

A weather scenario can be defined as a realistic synthesis of sensible weather conditions over a specified area and time frame. A weather scenario should not be confused with operational weather forecasts provided by weather support personnel. When these detailed scenarios are composed over a battlefield area, a problem of long standing must be solved, that is, trying to determine small-scale weather occurrences when the available data were taken on a much larger scale. In other words, climatological data are often applicable to a station location rather than representative of an entire region. Difficulty is also encountered in determining the occurrence and distribution of precipitation in thunderstorm situations and the extent of fog formation in river basins.

These weather scenarios are derived mainly from the climatological data base collected by the United States Air Force Environmental Technical Application Center. The derived statistical probabilities from this data base are no

guarantee that certain weather conditions will be reproduced in time or space. Climatological statistics only enable one to visualize the broad aspects of the weather of a region. A detailed weather scenario for a specific area must consider all local variations that impinge upon the weather.

The synoptic weather patterns discussed in paragraph 4 provided the dynamic impetus for constructing the weather scenarios for central Germany. Climatological controls such as those discussed in paragraphs 2 and 3 (terrain and air mass chracteristics) also entered into the development phase of the project. Other factors that were considered in preparation of the scenarios were pressure center paths, upper-level winds, and distribution of water courses within the area. Effort was made to preserve the continuity of weather systems across the FOFEBA so that a realistic hour-by-hour weather pattern is presented.

The appendix contains the scenarios for the FOFEBA area. The February scenario was developed by Mr. H. H. Monahan of ASL. The Pasquill categories were computed by using a method developed by Turner.[6] The cloud free lines of sight were derived by using the method of Lund et al.[7]

---

[6]D. B. Turner, 1964, "A Diffusion Model for an Urban Area," J Applied Meteorol, 3:83-91

[7]I. A. Lund, D. D. Grantham, and C. B. Elam, 1975, Atlas of Cloud-Free Line of Sight Probabilities, Part I: Germany, AF Surveys in Geophysics No. 309, AFCRL-TR-75-0261, 77 pp

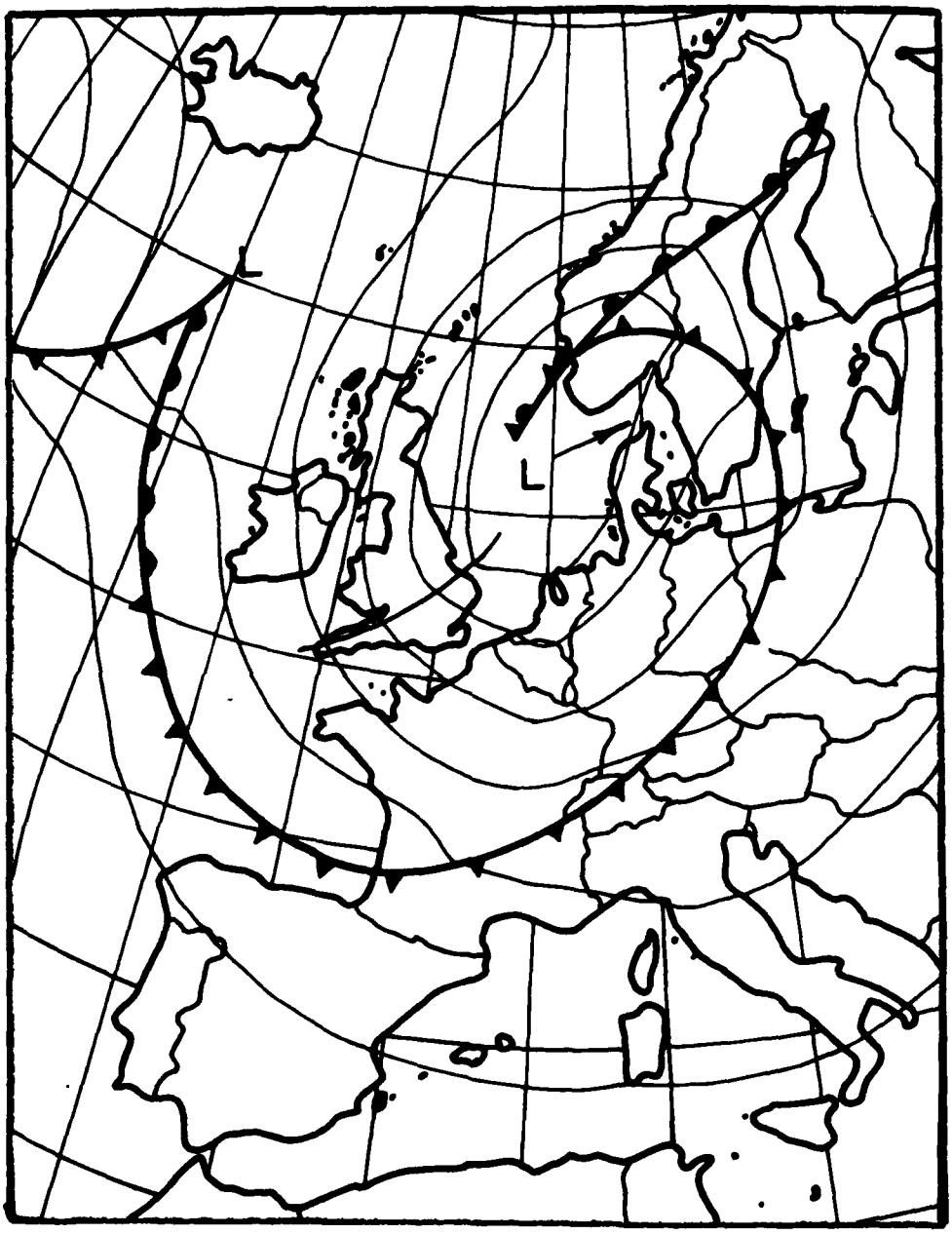


Figure 2. Example of a slow-moving low over the North Sea.

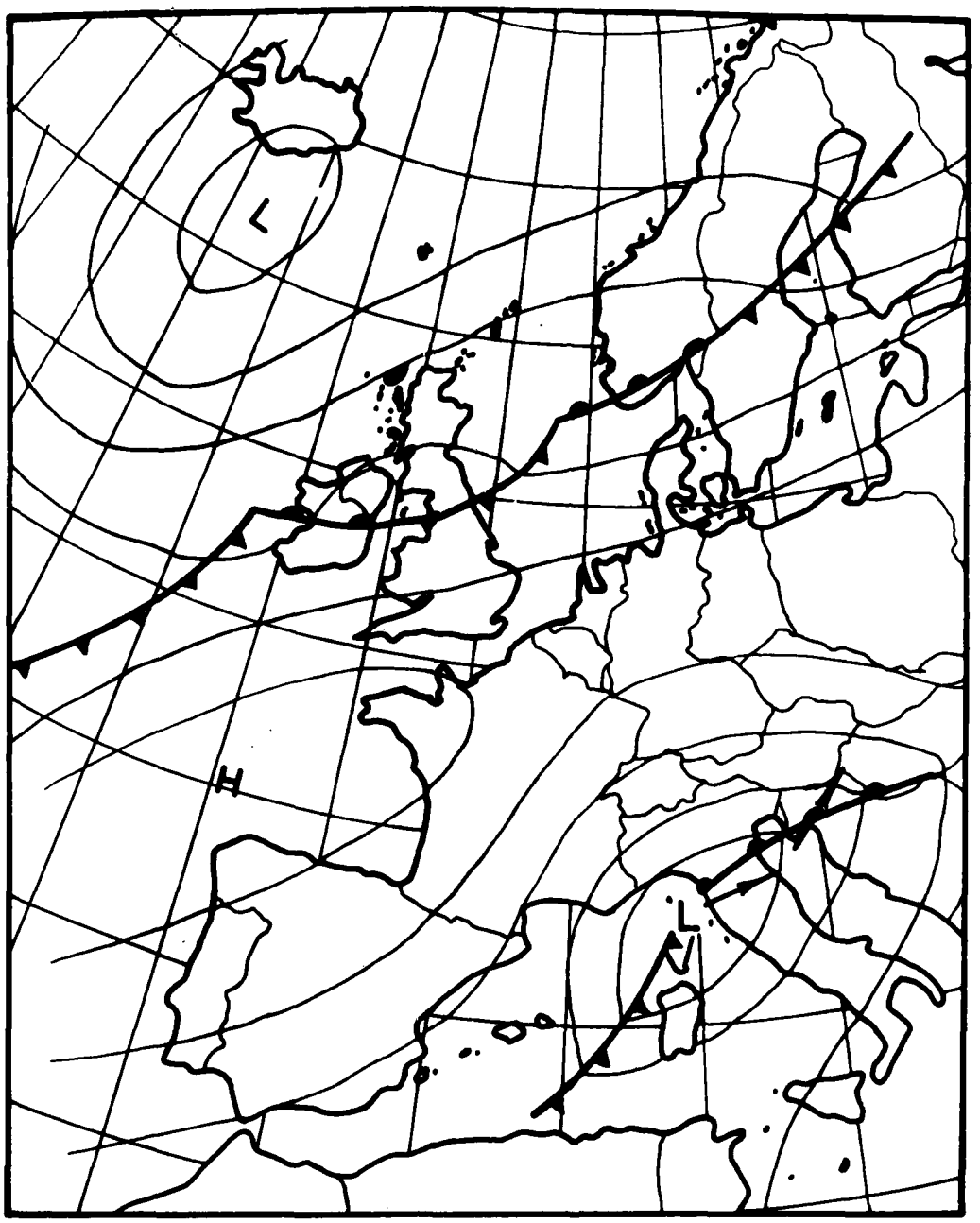


Figure 3. Example of a deep low in the Ligurian Sea.

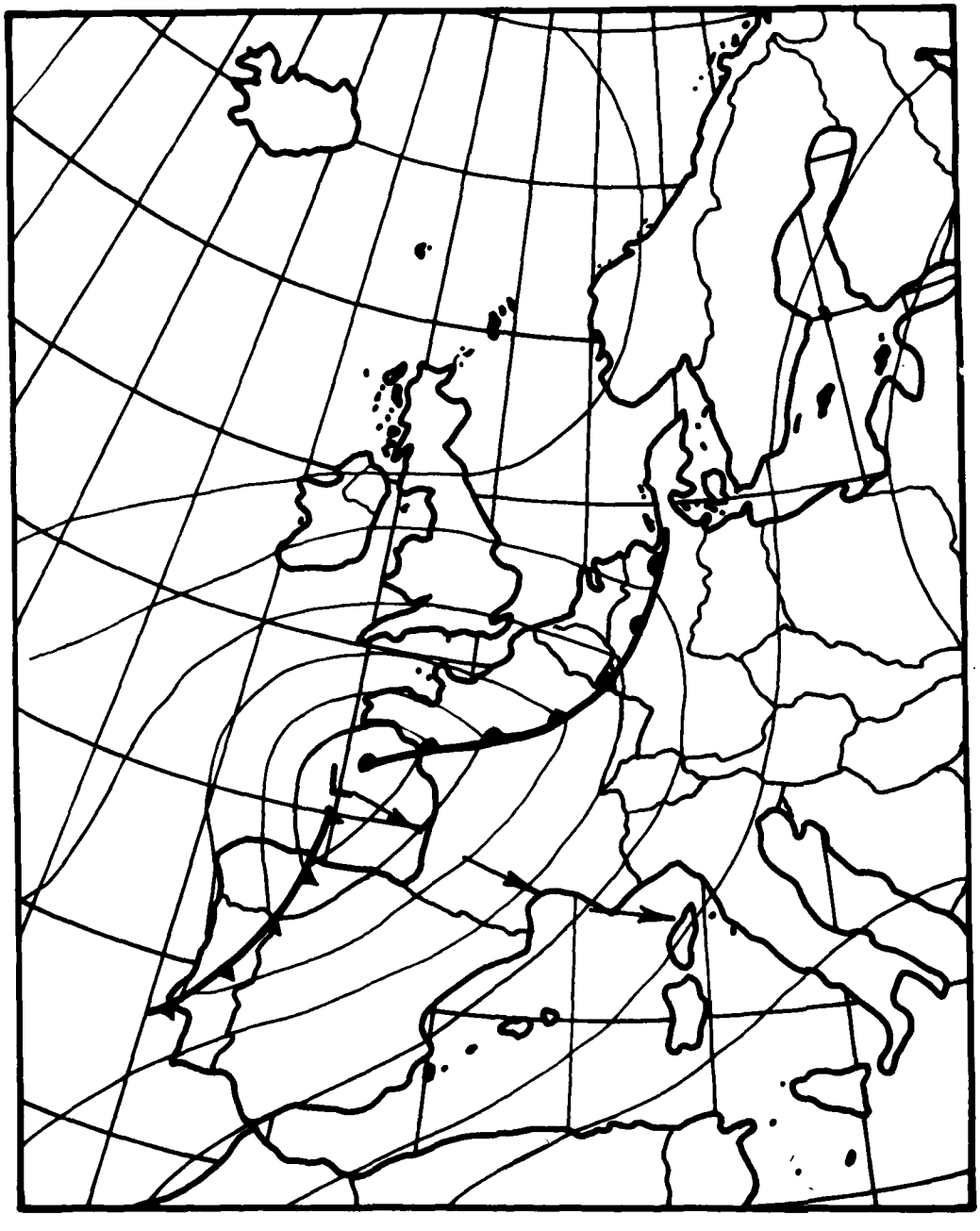


Figure 4. Example of a wave on the polar front in the Bay of Biscay.

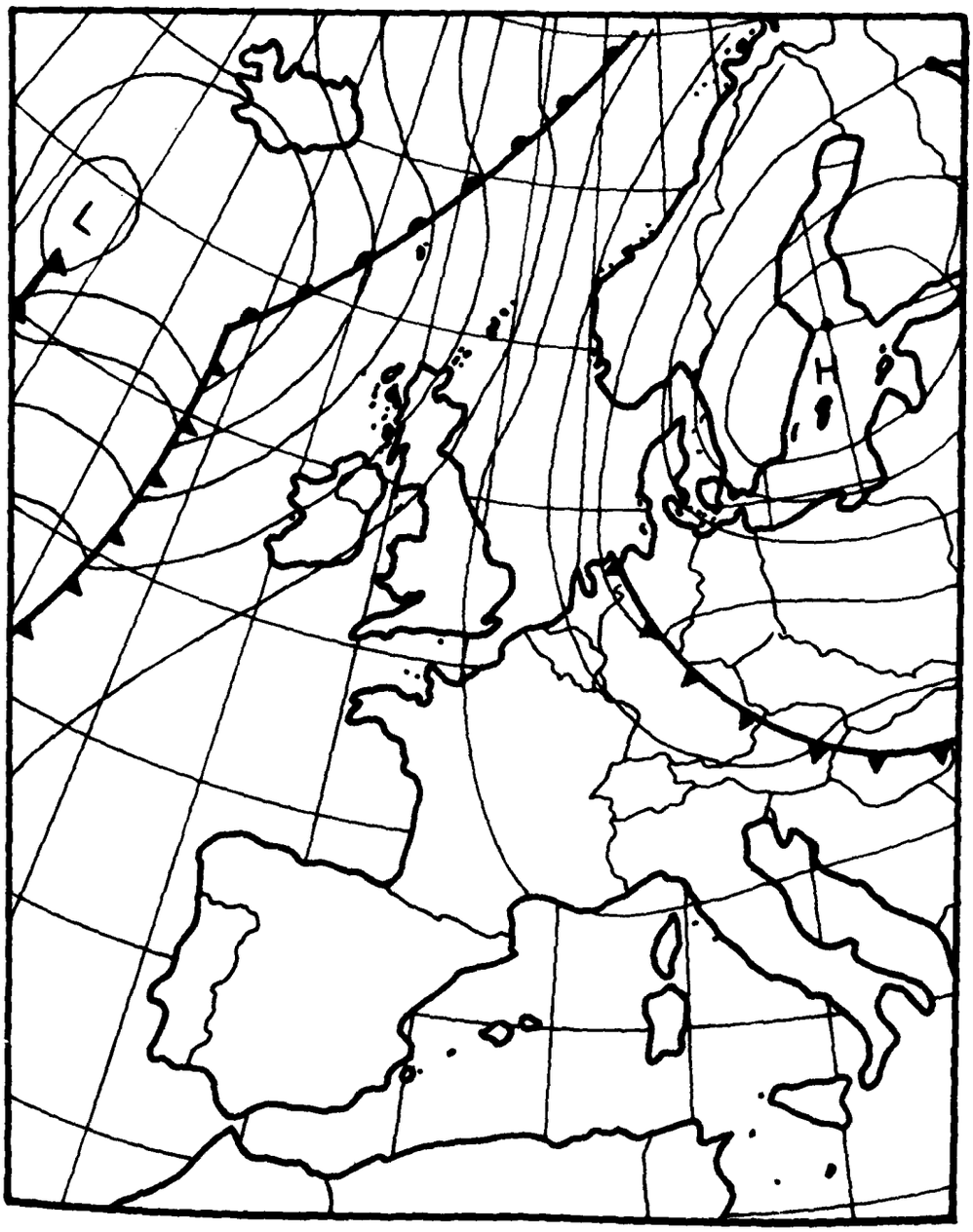


Figure 5. Example of a stationary Siberian High.

REFERENCES

1. Haurwitz, B., and J. M. Austin, 1944, Climatology, McGraw-Hill, New York and London.

2. Geb, M., 1971, "Neue Aspekte und Interpretationen Zum Luftmassen und Frontenkonzept," Meteor Abb, 109, No. 2.

3. Schuepp, M., and H. Schirmer, 1977, World Survey of Climatology Vol 6, C. C. Wallen, Editor, Elsevier Scientific Publishing Company, Amsterdam.

4. Aerospace Science Division, 1968, Catalogue of European Large Scale Weather Types, HQ 2nd Weather Wing, Aerospace Science Division.

5. Department of the Air Force, Headquarters, Second Weather Wing, 1970, European Theater Weather Orientation, APO New York 09332, AD 876370.

6. Turner, D. B., 1964, "A Diffusion Model for an Urban Area," J Applied Meteorol, 3:83-91.

7. Lund, I. A., D. D. Grantham, and C. B. Elam, 1975, Atlas of Cloud-Free Line of Sight Probabilities, Part I: Germany, AF Surveys in Geophysics No. 309, AFCRL-TR-75-0261.

APPENDIX

SCENARIOS FOR THE FOFEBA

Symbols used in the scenarios are explained on the following page. The February scenario was developed by Mr. H. H. Monahan of ASL. Most other parameters are given in metric units. Extinction coefficients for the weather snapshots (an instantaneous view of weather parameters) were computed by a method described by Duncan et al.[1] The following caveats apply to these computations:

1. The referenced version of EOSAEL does not model extinction in clouds. The best estimates from the available data were extracted to augment the EOSAEL output.

2. The EOSAEL vertical profile model is applicable to low visibility fog and haze conditions. Consequently, the vertical profiles up to cloud level for February snapshots 1 and 2 are probably pessimistic and should be considered as upper bounds.

3. Since no model is available for the vertical profile through light snow and rain (February snapshot 3), a constant profile has been assumed. Similar restrictions apply to the July extinction coefficients.

---

[1]Duncan et al, The Electro-Optical Systems Atmospheric Effects Library, ASL-TR-0047, US Army Atmospheric Sciences Laboratory, White Sands Missile Range, NM 88002

EXPLANATION OF SYMBOLS

Visibility is stated in kilometers.

Cloud heights are stated in hundreds of meters above ground level; for example, 7 means 700 meters, 25 means 2500 meters.

Surface wind direction is the direction from which the wind is blowing; windspeed is in meters per second.

Sky cover symbols:

0	Clear to 1/8 cloud cover
◐	1/8 to 4/8 cloud cover
◑	5/8 to 7/8 cloud cover
●	Overcast 8/8 cloud cover
X	Sky is completely hidden by a surface-based obscuring phenomena (precipitation, fog).
-X	1/8 to 7/8 of sky is hidden by a surface-based phenomena.

Precipitation Intensity:

Light (-)	Up to 0.1 in/h
Moderate ( )	0.11 to 0.3 in/h
Heavy (+)	More than 0.3 in/h

Winds:

L&V Light and Variable

The water equivalent of solid precipitation (snow) can be estimated on the basis of the 1/10 ratio method, for example, 1 in of snow approximates 0.1 in of rain.

Weather Symbols

R	Rain	S	Snow
RW	Rainshowers	SW	Snowshowers
L	Drizzle	IC	Ice crystals
ZR	Freezing rain	T	Thunderstorm
ZL	Freezing drizzle	TRW	Thunderstorm with rain falling

Obstruction to Vision Symbols

F	Fog
GF	Ground fog
H	Haze
BS	Blowing snow

FEBRUARY WEATHER SNAPSHOTS

In February in the FOFEBA area, ceilings of 450 m or less in the morning hours occur 55 to 65 percent of the time along with visibilities less than 4800 m. February daytime visibility averages 7000 m and 50 percent of the time the afternoon (12-17 hours) ceiling is 1500 m or greater. February (all hours) ceilings are greater than 1800 m 50 percent of the time and visibilities are greater than 5000 m 50 percent of the time. A cloud-free line of sight in February occurs about 30 percent of the time (2500 m to surface). Weather data for the February snapshots are:

SNAPSHOT 1. The cloud base of the first layer is 460 m, visibility under the cloud is 4 to 6 km and a light snow shower is occurring. The top of the first cloud layer is 2000 m. Above the first layer of clouds the visibility is 7 to 10 km until the second layer of clouds is encountered at 2700 m. This second layer of clouds extends to 3800 m. Imbedded within these clouds is an occasional (1/8 - 2/8 areal coverage) cloud extending from 460 m to 6100 m with precipitation in the form of light snow. Visibilities within the clouds range from 0 to 2 km. Areal coverage for all clouds is 6/8 to 8/8.

SNAPSHOT 2. The cloud base is at 1060 m with a top of 2100 m. Visibility below the cloud is 10-15 km and above the cloud the visibility increases to 15-20 km. No precipitation is occurring and visibility within the cloud is 0-2 km. Areal coverage for these clouds is 2/8.

SNAPSHOT 3. The cloud base of the first layer is 150 m with a top of 300 m. Light snow, light rain, and fog, are present below these clouds. Visibility below these clouds ranges from 1 to 2 km. The second level of clouds begins at 460 m and extends to 1220 m. The visibility between cloud layers 1 and 2 is 2 to 4 km. Rain and snow is also falling from the second cloud layer. The third cloud layer begins at 1370 m and extends to 2100 m. Visibility between cloud layer 2 and 3 varies from 3 to 5 km with rain and snow falling from the third layer. The fourth cloud layer begins at 2700 m and extends to 3350 m. Visibility between cloud layer 3 and 4 varies from 3 to 5 km with light snow falling from the fourth layer. Visibilities within the clouds vary from 0 to 2 km. Areal coverage ranges from 6/8 to 8/8.

EXTINCTION COEFFICIENTS FOR FEBRUARY SNAPSHOT 1

Height (m)	$K_{.55}(km^{-1})$	$K_{3-5}(km^{-1})$	$K_{8-12}(km^{-1})$
Sfc	.28	.13	.10
50	1.07	.22	.16
100	1.85	.50	.35
150	4.73	2.14	1.43
200	15.65	13.80	8.52
250	26.32	31.03	18.54
300	32.13	42.32	24.97
350	36.30	51.18	29.97
400	39.62	58.68	34.15
450	42.40	65.19	37.79
500-2000	32.15	28.62	25.00
2000-2700	0	0	0
2750-4000	44.04	69.16	40.00

EXTINCTION COEFFICIENTS FOR FEBRUARY SNAPSHOT 2

Height (m)	$K_{.55}(km^{-1})$	$K_{3-5}(km^{-1})$	$K_{8-12}(km^{-1})$
Sfc-1060	.39	.04	.03
1060-2100	32.15	28.62	25.00
2100-4000	≈ 0	≈ 0	≈ 0

EXTINCTION COEFFICIENTS FOR FEBRUARY SNAPSHOT 3

Height (m)	$K_{.55}(km^{-1})$	$K_{3-5}(km^{-1})$	$K_{8-12}(km^{-1})$
Sfc-150	2.60	2.60	2.60
150-300	32.15	28.62	25.00
300-460	1.11	1.11	1.11
460-1220	32.15	28.62	25.00
1220-1370	0.98	0.98	0.98
1370-2100	32.15	28.62	25.00
2100-2700	0.98	0.98	0.98
2700-3350	32.15	28.62	25.00
3350 and above	0	0	0

JULY WEATHER SNAPSHOTS

In July in the FOFEBA area, ceilings of 450 m or less in the morning hours occur 10 to 20 percent of the time along with visibilities less than 4800 m. July daytime visibility averages 9500 m with afternoon ceilings of 900 m over the plains.

July ceilings are greater than 900 m and visibilities are greater than 4800 m 60 percent of the time. A cloud-free line of sight in July occurs about 50 to 55 percent of the time (2500 m and below). Weather data for the July snapshots are:

SNAPSHOT 1. Cloudbase 800 m, visibility 7 to 10 km in rainshowers or thundershowers. Cloud top is 9500 m.

SNAPSHOT 2. Cloud base 1200 m, visibility 25 to 30 km.

SNAPSHOT 3. Shallow ground fog of 200 m depth with maximum visibility in the fog of 1 km. Cloud base of 400 m with visibility between the fog and the cloud of 5 to 10 km. Top of cloud is 700 m. Visibilities above the cloud are greater than 15 km.

EXTINCTION COEFFICIENTS FOR JULY SNAPSHOT 1

Height (m)	$K_{.55}(km^{-1})$	$K_{3-5}(km^{-1})$	$K_{8-12}(km^{-1})$
Sfc - 800	1.63	.41	.29
800 - 4000	43.6	48.0	50.9

EXTINCTION COEFFICIENTS FOR JULY SNAPSHOT 2

Height (m)	$K_{.55}(km^{-1})$	$K_{3-5}(km^{-1})$	$K_{8-12}(km^{-1})$
Sfc - 1000	.39	.04	.03
1000 - 2000	30.15	26.15	23.70
2000 - 4000	≈ 0	≈ 0	≈ 0

EXTINCTION COEFFICIENTS FOR JULY SNAPSHOT 3

Height (m)	$K_{.55}(km^{-1})$	$K_{3-5}(km^{-1})$	$K_{8-12}(km^{-1})$
Sfc	4.10	4.38	.69
20	7.34	10.28	1.52
40	15.22	18.99	3.47
60	25.20	29.55	8.03
80	36.22	40.63	15.09
100	47.04	51.09	24.21
120	56.78	60.26	34.51
140	65.01	67.86	45.03
160	71.68	73.92	54.97
180	76.89	78.61	63.84
200	80.88	82.18	71.42
200-400	12.81	10.10	6.32
400-700	45.80	50.10	24.80
700-4000	≈ 0	≈ 0	≈ 0

HANNOVER - BERLIN CORRIDOR SNAPSHOTS

February

Snapshot 1

a. Lowest cloud base is 120 m (all heights are above surface) with snow mixed with rain and fog. Visibility is 1 to 2 km. Top of this lowest cloud is 180 m.

b. Next cloud base is 360 m with a thickness of 400 m (cloud top 760 m). Visibility between cloud layers is 2 to 4 km.

c. Next cloud base is 1200 m with a thickness of 800 m (top 2000 m). Visibility between layers is 3 to 6 km.

d. Next cloud base is 2700 m with a thickness of 600 m (top 3300 m). Visibility between layers is 7 km.

e. Clear above the previous cloud top with a visibility greater than 10 km.

Snapshot 2

a. Lowest cloud base is 750 m with slight rainshowers and a visibility of 6 to 8 km. Tops of these clouds are 1200 m.

b. The next cloud base is 1800 m with a top of 2200 m. Visibility between cloud layers is 7 km.

c. Embedded in the above structure (25 percent probability) is a cloud mass extending from 750 m above the ground to 6000 m above the ground. Visibility outside the clouds is greater than 10 km.

Snapshot 3

a. Ground fog covers the area, depth of the fog is about 50 to 60 m. However, clouds can be seen through the fog. Visibility in the fog is about 1.0 to 1.5 km.

b. Cloud base is 900 m with a top of 1200 m. Visibility between the fog and the cloud base is greater than 10 km.

c. Estimated probability of a cloud-free line of sight in February in the Hannover - Berlin Corridor is 25 to 30 percent (2500 m to surface).

HANNOVER - BERLIN CORRIDOR SNAPSHOTS

July

Snapshot 1

a. Lowest cloud base is 600 m about 20 percent of the time (otherwise 1000 m). This cloud mass is a thunderstorm and extends to 7000 m. Visibility in the rainshowers under the clouds is 5 to 7 km.

b. The next layer of clouds has a base of 2400 m and a top of 3000 m. Visibility outside the clouds is greater than 10 km.

c. The last layer of clouds is 7500 m above the surface.

Snapshot 2

a. Lowest cloud base is 1000 m with a top of 1800 m. Visibility under the clouds is greater than 10 km.

b. The next level of clouds has a base of 2700 m and a top of 3200 m. Visibility between the layers of clouds is greater than 10 km.

c. The last layer of clouds has a base of 7500 m.

Snapshot 3

a. This weather situation usually occurs in the morning after an evening thundershower (probability of thunderstorm occurrence in July is 20 percent). The ground is obscured or partially obscured by fog until 1 h after sunrise. Visibility in the fog is about 1 km. The first hour after sunrise the fog becomes patchy and there is a cloud layer at 600 m with a visibility of 4 to 5 km. The top of this cloud layer is 800 m.

b. The next cloud layer has a base of 1200 m with a top of 1800 m. Visibility outside the clouds is greater than 10 km.

c. Estimated probability of a cloud-free line of sight in July during the morning hours is 30 to 35 percent and rises 55 to 60 percent in the afternoon (2500 m to surface).

BERLIN - HANNOVER CORRIDOR

February Snapshot 1

Height (m)	$K_{.55}(km^{-1})$	$K_{3-5}(km^{-1})$	$K_{8-12}(km^{-1})$
Sfc-1200	2.60	2.88	3.09
1200-2000	44.04	69.20	40.0
2000-2700	≈ 0	≈ 0	≈ 0
2700-3300	10.8	11.4	10.4
3300-4000	≈ 0	≈ 0	≈ 0

February Snapshot 2

Sfc	.36	.13	.19
50	1.07	.22	.26
50-150	1.85	.50	.35
150-250	26.32	31.03	18.54
250-350	36.30	51.18	29.94
350-750	42.40	65.19	37.79
750-1200	32.15	28.62	25.00
1200-1800	≈ 0	≈ 0	≈ 0
1800-2200	44.04	69.16	40.00
2200-4000	≈ 0	≈ 0	≈ 0

February Snapshot 3

Sfc	4.10	4.38	.69
25	9.31	12.45	2.01
50	20.21	24.27	5.75
50-900	12.80	10.10	6.30
900-1200	45.80	50.10	24.80
1200-4000	≈ 0	≈ 0	≈ 0

July Snapshot 1

Sfc-600	1.63	.41	.29
600-4000	43.6	48.0	50.9

July Snapshot 2

Sfc-1000	.39	.04	.03
1000-1800	30.15	26.15	23.70
1800-4000	≈ 0	≈ 0	≈ 0

July Snapshot 3

Sfc	4.1	4.38	.69
30	11.31	14.58	2.49
30-600	≈ 0	≈ 0	≈ 0
600-800	45.80	50.10	24.80
800-1200	≈ 0	≈ 0	≈ 0
1200-1800	30.16	26.15	23.70
1800-4000	≈ 0	≈ 0	≈ 0

THUNDERSTORM SOUNDING

(Thunderstorms near station, but no rain falling on station)

Height (m)	P(mb)	T(^{o}C)	T_{o}(^{o}C)
Sfc	1005	15.3	10.3
100	998	14.7	9.9
200	990	14.0	9.6
300	980	13.1	9.3
400	969	12.1	8.9
500	957	10.9	8.4
600	945	10.2	8.0
700	934	9.5	7.4
800	922	9.9	6.9
900	911	8.1	6.2
1000	898	7.3	5.5
1100	889	6.6	4.8
1200	878	6.0	4.2
1300	868	5.4	3.6
1400	857	4.7	2.8
1500	846	4.0	2.0
1600	836	3.5	1.3
1700	827	2.4	0.5
1800	815	1.6	-0.7
1900	805	1.9	-1.1
2000	796	0.1	-2.2
2100	787	-0.2	-2.9
2200	777	-1.0	-3.9
2300	768	-1.7	-5.0
2400	756	-2.0	-5.8
2500	747	-2.8	-6.6
2600	737	-3.3	-7.7
2700	726	-4.0	-8.5
2800	716	-4.6	-9.8
2900	707	-5.1	-10.4
3000	697	-5.8	-11.5
3100	688	-6.4	-12.6
3200	680	-6.9	-13.5
3300	671	-7.6	-14.8
3400	663	-8.1	-15.7
3500	655	-8.6	-16.8
3600	647	-9.3	-18.0
3700	639	-9.9	-18.9
3800	631	-10.5	-20.0
3900	623	-11.0	-20.8
4000	615	-11.7	-21.8

Thunderstorm Sounding (cont)

Height (m)	P(mb)	T(^{o}C)	T_o(^{o}C)
4100	607	-12.1	-23.0
4200	598	-13.0	-24.1
4300	590	-13.6	-24.9
4400	582	-14.5	-25.5
4500	573	-15.4	-26.3
4600	565	-16.2	-27.0
4700	557	-17.0	-27.5
4800	549	-17.8	-28.2
4900	540	-18.7	-29.0
5000	532	-19.5	-29.8

FOG SOUNDING

Height (m)	P(mb)	T(°C)	T_o(°C)
Sfc	1005	15.3	15.3
100	998	14.7	14.7
200	990	14.0	13.6
300	980	13.1	9.3
400	969	12.1	8.9
500	957	10.9	8.4
600	945	10.2	8.0
700	934	9.5	7.4
800	922	9.9	6.9
900	911	8.1	6.2
1000	898	7.3	5.5
1100	889	6.6	4.8
1200	878	6.0	4.2
1300	868	5.4	3.6
1400	857	4.7	2.8
1500	846	4.0	2.0
1600	836	3.5	1.3
1700	827	2.4	0.5
1800	815	1.6	-0.7
1900	805	1.9	-1.1
2000	796	0.1	-2.2
2100	787	-0.2	-2.9
2200	777	-1.0	-3.9
2300	768	-1.7	-5.0
2400	756	-2.0	-5.8
2500	747	-2.8	-6.6
2600	737	-3.3	-7.7
2700	726	-4.0	-8.5
2800	716	-4.6	-9.8
2900	707	-5.1	-10.4
3000	697	-5.8	-11.5
3100	688	-6.4	-12.6
3200	680	-6.9	-13.5
3300	671	-7.6	-14.8
3400	663	-8.1	-15.7
3500	655	-8.6	-16.8
3600	647	-9.3	-18.0
3700	639	-9.9	-18.9
3800	631	-10.5	-20.0
3900	623	-11.0	-20.8
4000	615	-11.7	-21.8

Fog Sounding (cont)

Height (m)	P(mb)	T(^{o}C)	T_{o}(^{o}C)
4100	607	-12.1	-23.0
4200	598	-13.0	-24.1
4300	590	-13.6	-24.9
4400	582	-14.5	-25.5
4500	573	-15.4	-26.3
4600	565	-16.2	-27.0
4700	557	-17.0	-27.5
4800	549	-17.8	-28.2
4900	540	-18.7	-29.0
5000	532	-19.5	-29.8

GOOD WEATHER SOUNDING

Height (m)	P(mb)	T(^{o}C)	T_o(^{o}C)
Sfc	1016	28.2	10.4
100	1011	27.1	9.9
200	998	25.8	9.1
300	987	24.4	8.3
400	976	23.1	7.8
500	965	21.7	7.2
600	953	20.4	6.7
700	943	19.3	6.2
800	932	18.5	6.0
900	921	17.6	5.8
1000	910	16.5	5.4
1100	899	15.5	5.2
1200	889	14.8	4.7
1300	878	13.9	4.3
1400	868	13.0	3.9
1500	858	12.1	3.5
1600	848	11.6	3.1
1700	838	10.9	2.3
1800	828	10.2	1.5
1900	818	10.5	0.7
2000	808	9.9	0.0
2100	798	8.5	-0.7
2200	789	7.9	-1.3
2300	779	7.2	-2.0
2400	770	6.8	-2.6
2500	760	6.1	-3.3
2600	751	5.6	-4.0
2700	742	5.0	-4.6
2800	733	4.4	-5.1
2900	725	4.0	-5.7
3000	716	3.4	-6.5
3100	707	2.8	-7.1
3200	698	2.2	-7.8
3300	689	1.6	-9.1
3400	680	1.1	-10.3
3500	672	0.5	-11.6
3600	664	0.0	-12.2
3700	655	-0.6	-13.7
3800	647	-1.2	-15.1
3900	639	-1.7	-16.0
4000	631	-2.2	-17.0
4100	623	-2.8	-18.6
4200	615	-3.4	-19.8
4300	607	-3.9	-20.6
4400	599	-4.4	-21.9
4500	591	-5.3	-23.1
4600	584	-5.8	-24.2
4700	577	-6.5	-25.0
4800	570	-7.2	-26.0
4900	563	-7.9	-27.1
5000	556	-8.3	-28.0

FOFEBA STUDY
FEBRUARY SCENARIO - EASTERN AREA (HILLY TERRAIN)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
1	00-04	9030760		20	260/10
	05-12	90300760		25	240/06
	13-19	7.50300V0760		20	240/08
	20-21	6.90300V0760	RW-	12	210/04
	22-23	7.50	R-	10	220/03
2	00-02	60	R-	10	210/06
	03-04	4.50	R-	10	220/07
	05	4.507.50	R-	10	230/08
	06	4.507.50		15	240/10
	07-08	4.507.50300760		20	240/08
	09-17	7.50300V0760		25	230/09
	18-19	7.50300V0760		25	270/10
	20-23	7.50270V0760		20	260/11
3	00-05	7.50270760		20	260/10
	06	7.50270		20	270/10
	07-13	7.50270		15	280/11
	14-23	7.50270V0760		10	270/10
4	00-01	60270		10	280/06
	02-05	60	H	7	290/05
	06-10	4.50	H	4	300/06
	11-12	60360760	H	5	300/06
	13-15	7.50360760		10	310/07
	16-19	7.50360760		15	310/05
	20-23	90		15	300/03

FEBRUARY SCENARIO - EASTERN AREA (HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
5	00-08	CLEAR	H	7	L&V
	09-11	CLEAR		10	L&V
	12-14	360		10	L&V
	15-19	CLEAR	H	7	L&V
	20-23	CLEAR	H	5	L&V
6	00-06	CLEAR	H	3	L&V
	07-09	-X360760	GF	1	L&V
	10-11	760	H	3	L&V
	12-17	CLEAR	H	5	130/02
	18-23	CLEAR	H	3	140/03
7	00-02	CLEAR	H	3	090/01
	03-06	10.50360760	H	7	180/04
	07-11	10.50360	H	5	200/08
	12-15	9.90360	S-	5	200/09
	16	10.50360	H	5	210/08
	17-19	10.50	H	7	180/05
	20-23	10.50230	H	5	180/01
8	00-02	90	S-H	4	220/01
	03-04	90300	H	5	230/02
	05	90	H	5	270/02
	06	90	S-	4	270/02
	07-08	60	S-H	3	270/01
	09	6090	S-	5	290/02
	10	6090	H	7	290/01
	11-12	90270700		10	290/03
	13-17	10.50270700		15	270/05
	18-23	10.50270700V0		15	270/05

FEBRUARY SCENARIO - EASTERN AREA (HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
9	00-05	90260		10	250/06
	06-10	90260		10	260/09
	11-14	7.50230	S-H	5	240/08
	15-17	60	S-H	4	270/07
	18-23	4.50240	S-H	4	250/07
10	00-03	60270610	BS H	7	240/06
	04-05	60270610	H	10	240/05
	06-08	60		7	230/04
	09-11	60	S-	5	230/03
	12-14	4.50	IC H	3	240/04
	15-17	4.50270	IC H	3	270/05
	18-21	4.50	SW-H	5	290/05
	22-23	4.50	H	6	300/04
11	00-03	60	H	5	270/03
	04-08	60	H	6	300/01
	09-12	60300760		10	L&V
	13-20	7.50300760		15	210/04
	21-22	60	H	5	180/02
	23	4.5	H	3	180/03
12	00-03	4.50	H	3	150/06
	04-08	30	S-H	3	120/05
	09-10	60240	H	7	110/07
	11-14	7.50240	BS H	7	090/10
	15-16	60240	H	7	090/09
	17-18	60	H	6	090/08
	19	60	S-	5	090/07
	20-23	30	S-H	3	070/08
13	00-06	30	S-H	2	090/03
	07-11	60	S-H	3	090/01

FEBRUARY SCENARIO - EASTERN AREA (HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
13	12-13	7.50270	SW-H	4	290/03
(cont)	14-21	7.50270V0610	H	5	300/04
	22-23	7.50300610	H	6	310/03
14	00-02	7.50300	H	6	300/04
	03-06	60	S-H	4	290/05
	07	60300760	S-H	5	300/06
	08-11	60300760	H	7	340/05
	12-17	7.50370760	H	8	360/04
	18-23	7.50370760	H	7	080/02
15	00-01	7.50300760	H	7	090/03
	02-07	60	H	5	120/02
	08-10	60300	H	4	090/05
	11-15	4.50	S-H	3	070/03
	16	3X	S	0.5	040/04
	17-20	-X30	S-F	1	360/03
	21-22	-X2.40	S-F	1	350/02
	23	-X30	S-F	1	350/03
16	00-05	-X30	S-F	1	320/03
	06-12	-X30	S-F	2	280/04
	13	60	S-	4	240/03
	14-15	60	H	6	235/04
	16-20	7.50300610		10	230/03
	21-23	7.50	H	7	230/04
17	00-02	7.50	H	6	240/02
	03-06	60	H	5	260/01
	07-09	30	S-H	2	270/02
	10-11	4.50	S-H	3	280/01
	12-15	60240	H	5	240/02
	16	60240	S-	3	230/04

FEBRUARY SCENARIO - EASTERN AREA (HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
17	17-21	4.50	H	4	220/01
(cont)	22-23	4.50	S-	2	210/02
18	00-02	30	S-H	2	180/02
	03	30240	S-	3	180/03
	04	30240	H	4	180/04
	05-06	60270	H	6	150/01
	07-08	7.50270	H	7	150/02
	09-13	270610	H	7	160/03
	14-15	270610	H	8	140/04
	16-19	270610	H	8	150/03
	20-23	300610	H	6	150/02
19	00-01	370610	H	4	140/03
	02-03	90370610	H	4	150/04
	04-05	4.5090370	H	3	130/05
	06	4.5090370	H	3	130/04
	07-13	4.50	H	4	110/07
	14-15	2.404.50	H	4	100/08
	16-18	2.404.50	H	3	100/06
	19-23	-X2.40	S-R-F	1	110/07
20	00-10	-X30	ZR-F	1	120/05
	11-14	4.50	RW-F	2	230/03
	15-16	60	H	5	200/03
	17-21	7.5013.50270760	H	6	180/04
	22-23	7.50	H	5	180/03
21	00-06	7.50300760	H	6	180/04
	07-09	7.50300760		10	180/05
	10-13	90760		15	225/06
	14-16	10.50300760		15	180/05
	17-20	370760		15	180/03
	21-23	CLEAR		10	140/01

FEBRUARY SCENARIO - EASTERN AREA (HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
22	00-03	CLEAR	H	7	150/02
	04-05	CLEAR	H	5	100/01
	06-09	CLEAR	H	3	110/02
	10-11	CLEAR	H	5	120/01
	12-14	370760	H	7	120/02
	15-19	370760		10	110/03
	20-21	370760	H	5	100/02
	22-23	370760	H	2	110/03
23	00-01	1.5X	F	0.8	110/01
	02	1.2X	F	0.5	110/01
	03-10	0.3X	F	0.1	090/03
	11	1.5X	F	0.5	090/04
	12	-X2.4	F	1	090/05
	13-23	30	R-H	2	090/05
24	00-05	30	L-H	3	100/07
	06-10	2.40	L-H	3	090/08
	11-12	-X1.20	L-F	1	090/06
	13-14	1.2X	R-F	0.5	090/05
	15-19	0.6X	R-F	0.1	090/04
	20-23	0.3X	ZL-F	0.1	090/05
25	00-01	0.3X	ZR-F	0.1	070/04
	02	1.5X	ZR-F	0.5	090/02
	03	1.5X	ZR-F	1	090/03
	04-07	1.5030	ZR-H	2	090/02
	08-10	30	ZR-H	4	120/03
	11-12	30	S-R-H	3	120/04
	13-15	4.50	S-R-H	3	130/03
	16-17	30	S-R-F	1	110/01
	18-19	2.40	S-R-	1.5	120/02
	20-23	2.40	F	1	100/01

FEBRUARY SCENARIO - EASTERN AREA (HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
26	00-04	3@	H	2	120/01
	05-08	-X3@	F	1	100/02
	09-10	-X3@	IC	1	110/01
	11-12	-X3@	S-F	1	090/02
	13-14	-X3@	IC F	1	090/03
	15-17	-X3@	F	1	090/01
	18-23	3X	F	0.5	110/01
27	00-09	1.5X	F	0.5	080/02
	10-11	3X	F	0.8	080/01
	12-19	3X	L-	1	090/03
	20-23	3X	F	0.7	090/02
28	00-03	-X3@	F	1	120/03
	04-05	-X1.5@	F	1	120/04
	06-12	1.5X	F	0.5	090/05
	13-15	-X2.1@	F	1.5	090/04
	16-23	3@	H	2	090/06

FEBRUARY (EASTERN, VALLEY)
UNSTRUT RIVER VALLEY AND ERFURT INDUSTRIAL AREA

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
1	00-06	10.50300760		20	250/04
	07-11	10.50300760		15	230/05
	11-23	10.5027-300V0760		20	230/04
2	00-03	10.50300		20	200/05
	04-08	10.50300760		25	200/07
	09-12	7.50300760		25	220/10
	13-15	90270760		30	230/07
	16-18	120270760		30	230/08
	19-20	150270760		25	240/09
	21-23	270760		25	250/08
3	00-08	90270760		25	260/10
	09-13	10.50270V0760		20	270/09
	14-18	90300760		15	270/07
	19-23	10.50300760		15	270/05
4	00-03	120V0300		15	290/04
	04-06	90	H	7	290/05
	07-11	7.50	H	4	310/04
	12-15	7.50370760		10	360/05
	16-23	90370760		10	030/03
5	00-07	13.50		10	040/01
	08-11	13.50	H	7	120/02
	12-23	CLEAR	H	5	L&V
6	00-07	CLEAR	H	4	L&V
	08	-X7.50760	GF	1	L&V
	09-10	-X7.50760	F	0.5	L&V
	11-12	-X90V0	GF	1	L&V
	13-15	10.50	H	3	L&V

FEBRUARY (EASTERN, VALLEY) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
6	16-18	10.50	H	4	L&V
(cont)	19-23	CLEAR	H	3	L&V
7	00-03	CLEAR	H	5	200/04
	04-07	370760	H	7	180/06
	08	120270760	H	6	180/07
	09-12	120270760	H	7	210/09
	13-17	270700	H	8	220/07
	18-20	270	H	6	180/04
	21-23	60230	H	5	180/02
8	00-02	3060	H	4	210/01
	03-04	60270V0610	H	5	220/02
	05-06	60240	H	4	180/01
	07-08	60240	S-	4	180/02
	09-11	60240	S-H	2	270/02
	12-16	7.50270700		15	270/04
	17-19	300760		15	230/03
	20-23	760		15	235/04
9	00-09	90300610		15	230/05
	10-11	90270610		15	230/06
	12	90270610	SW-	5	220/05
	13-14	7.50270V0610	S-H	5	270/06
	15-19	7.50270V0610		10	270/08
	20-23	7.50270V0610		15	270/06
10	00-03	300610		15	230/05
	04-06	120270610		15	240/04
	07-14	90270V0610	SW-	6	230/04
	15-17	6090	S-H	5	260/04
	18-19	3060	S-	3	270/02
	20-23	3060	H	5	270/04

FEBRUARY (EASTERN, VALLEY) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
11	00-05	90	H	5	290/03
	06-11	90300760		10	300/04
	12-14	90300760		15	220/02
	15-18	7.50300760		15	180/01
	19-20	90300760		10	180/03
	21-23	90300760		10	180/04
12	00-02	120300	H	8	180/05
	03-08	13.50300V0610	H	7	180/06
	09-14	13.50300V0610		10	200/05
	15-17	7.5013.50		10	150/03
	18-19	7.5013.50	H	5	150/04
	20-21	60	S-H	3	090/03
	22-23	1.5030	S-H	2	090/04
13	00-13	-X1.5030	S-F	1	030/03
	14-16	-X1.5030	IC F	1.5	040/02
	17	-X1.5030	F	1	020/03
	18-19	1.5X	F	0.5	310/04
	20-21	-X1.5030	F	1	300/04
	22-23	3060	H	3	310/03
14	00-02	6090	H	5	290/04
	03-04	6090	H	6	295/02
	05-06	6090	H	5	280/03
	07-09	90300	H	5	280/04
	10-13	90370760	H	7	290/01
	14-19	90370760	H	7	360/02
	20-21	7.50370760	H	5	030/03
	22-23	7.50	H	5	070/06

FEBRUARY (EASTERN, VALLEY) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
15	00-01	90	H	7	070/08
	02	90300760	H	7	090/06
	03-04	90300760	H	7	090/07
	05	7.50300	H	5	050/05
	06-09	3060	S-H	3	040/03
	10-14	-1.5030	S-F	1	035/08
	15-17	1.5X	SF	0.5	040/06
	18-22	-X30	S-F	1	020/04
	23	3X	SF	0.5	025/06
16	00	3X	SF	0.5	360/03
	01-05	-X30	S-F	1	340/04
	06	60	S-	3	290/03
	07-10	60	H	5	290/05
	11-14	7.50300610	H	7	260/04
	15-22	90300610	H	7	250/02
	23	90300610	H	8	250/03
17	00-02	90270V0610	H	7	200/01
	03-04	7.50240	H	5	200/1.5
	05-08	4.50	H	3	230/1.5
	09-11	60240	H	4	230/02
	12-14	7.50240V0	H	5	210/03
	15-17	90270760	H	6	220/05
	18-22	270760	H	6	220/05
	23	270760	H	5	200/04
18	00-01	270	H	5	210/05
	02-07	13.50270610	H	8	180/02
	08-09	13.50270610	H	6	180/04
	10-12	270610	H	7	180/03
	13-17	CLEAR		10	180/04
	18-20	CLEAR	H	9	150/04
	21-23	CLEAR	H	8	090/04

FEBRUARY (EASTERN, VALLEY) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
19	00-02	CLEAR	H	5	110/04
	03-06	CLEAR	H	2	060/05
	07-08	-X	GF	1	050/05
	09-10	-X90	GF	1	040/04
	11-12	-X6090	GF	1.5	035/05
	13-16	-X60	GF	1.75	030/03
	17-20	-X3060	GF	1	070/04
	21-22	-X1.2030	GF	1	050/02
	23	-X1.2030	ZR-	1.25	040/03
20	00-08	-X2.4060	ZR-F	1	045/2.5
	09-10	2.4060	H	3	190/01
	11-12	6013.50300760	H	5	230/02
	13	7.5013.50300760	H	7	235/04
	14-19	7.50150300760	H	8	240/03
	20-21	7.50150300760	H	9	180/05
	22-23	150300760		12	180/06
21	00-06	120300760		12	210/06
	07-09	120300760		14	180/04
	10-17	370760		18	220/4.5
	18-23	CLEAR		18	180/02
22	00-08	CLEAR		12	160/04
	09-19	370760	H	5	120/03
	20-23	CLEAR	H	3	060/04
23	00-02	-X	GF	1	045/2.5
	03	1.5X	F	0.5	030/02
	04-08	0.3X	F	0.1	035/2.5
	09-13	0.3X	ZR-	0.3	040/03
	14	-X1.207.50	R-F	0.5	025/04
	15-16	-X1.207.50	R-F	1	040/05

FEBRUARY (EASTERN, VALLEY) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
23	17-19	-X7.5@	R-F	1	090/04
(cont)	20-23	6@	R-H	2	090/04
24	00-02	3@6@	H	2	080/05
	03-04	3@6@	L-	2	070/04
	05-10	-X1.53@	L-F	1	070/3.5
	11-14	1.5X	L-	0.6	060/04
	15-17	1.5X	F	0.4	080/03
	18-23	0.3X	R-F	0.1	045/03
25	00	0.6X	ZR-F	0.15	040/05
	01-04	1.5X	ZR-F	0.2	050/04
	05-10	3X	ZR-F	0.45	045/03
	11-18	3X	ZR-F	0.7	030/04
	19-21	1.5X	S-F	0.6	040/02
	22-23	0.3X	S-F	0.1	035/2.5
26	00-11	0.6X	F	0.15	025/03
	12-17	1.5X	IC F	0.2	030/01
	18-23	0.3X	F	0.0	010/01
27	00-17	0.0	F	0.0	020/01
	18	1.2X	F	0.5	030/03
	19-23	-X1.5@3@	F	1	080/04
28	00-04	-X1.5@3@	F	1	070/03
	05-06	3X	F	0.7	070/04
	07-10	1.5X	F	0.45	080/02
	11	3X	F	0.6	030/04
	12-21	-X2.1@3@	F	1	060/03
	22-23	2.1@	H	2	050/04

FEBRUARY (WESTERN, HILLY TERRAIN)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
1	00-05	90270760		15	260/4.5
	06-09	90240760		12	200/03
	10	60V0240	RW-	10	180/04
	11	60V0240		15	180/02
	12-14	3060		15	200/05
	15	60120240	RW-	10	230/03
	16-18	60120240		15	230/04
	19-21	60120	RW-H	7	210/02
	22-23	60	RW-H	7	180/04
2	00-04	60	RW-H	5	200/05
	05-10	7.50230		10	210/08
	11-12	30V07.50	RW-H	3	230/06
	13-14	30V07.50		10	220/07
	15-16	307.50120		12	240/06
	17-19	2.407.50	SW-RW-	10	260/07
	20	7.50120		15	270/06
	21-23	7.50120270		15	270/05
3	00-01	120270		20	240/06
	02-07	120270700		20	210/07
	08-10	90120270		15	220/05
	11-12	6010.50270700		15	230/05
	13-15	60120		15	250/06
	16-17	7.50120300700		15	250/03
	18-20	7.50150300700		15	260/04
	21-23	7.50150370700		12	L&V
4	00-02	7.50170300		10	L&V
	03-04	7.50V0170300	H	7	230/01
	05-06	7.50180	H	7	310/02
	07-08	7.50180	SW-	6	300/02
	09-10	4.5060	SW-H	7	320/01

FEBRUARY (WEST, HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
4	11	4.5060240	SW-	10	360/02
(cont)	12-16	7.50240		10	020/03
	17-18	7.50		10	360/04
	19-23	7.50		10	360/03
5	00-06	CLEAR		10	L&V
	07-09	90		10	L&V
	10-12	90		12	280/01
	13-23	CLEAR		12	010/04
6	00-02	CLEAR	H	7	L&V
	03-04	CLEAR	H	6	L&V
	05	1.20	H	4	L&V
	06-12	1.2X	F	0.3	L&V
	13-14	-X2.10	GF	1	L&V
	15-23	CLEAR	H	3	200/01
7	00-01	270	H	7	L&V
	02-04	120270	H	7	160/03
	05-07	120270	H	8	160/04
	08	60120	S-H	5	180/03
	09-10	60120	S-H	3	180/04
	11-12	60120	S-H	3	180/05
	13-15	120240	H	5	180/06
	16-18	4.5010.50	H	6	180/04
	19-23	4.507.50	H	4	160/02
8	00-02	4.5090240	H	5	L&V
	03-06	4.5090240V0	H	6	L&V
	07	3090210	H	6	L&V
	08	3090210	S-	5	L&V
	09-10	3060	S-H	3	280/01
	11-12	60	H	7	310/03

FEBRUARY (WEST, HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
8	13	90300610	H	7	300/04
(cont)	14-17	90370610		10	280/02
	18-19	370V0610		15	280/01
	20-23	370610		15	270/02
9	00-02	90300610		15	250/05
	03-05	90300610		10	230/06
	06-09	90150300610		12	210/06
	10-14	90150270		12	230/07
	15-18	90150V0270610		15	235/7.5
	19-23	7.5013.50		12	225/06
10	00-01	7.5013.50		10	230/05
	02-04	60120	H	7	240/06
	05-07	60120	SW-	6	200/03
	08-09	4.50	S-H	3	210/02
	10	4.5090270	H	4	200/01
	11-13	4.5090270	H	7	210/05
	14	-X30	SW-F	1	240/04
	15	3X	SW F	0.5	240/05
	16	1.2X	SWF	0.5	230/04
	17-18	3060270610	H	3	260/04
	19-21	3060270610	H	5	250/05
	22-23	7.50270610	H	5	290/05
11	00-02	7.50		10	L&V
	03-06	90V0270		10	160/01
	07	90	S-H	7	150/02
	08-11	90270	SW-H	2	160/01
	12-13	90270760	H	7	200/03
	14-15	4.5090270760	H	7	210/04
	16-17	4.5090270760	H	8	180/01
	18-23	10.50		10	160/02

FEBRUARY (WEST, HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
12	00-01	120		10	150/03
	02-04	120300		12	160/04
	05	4.5010.50	H	9	160/05
	06	4.5010.50	S-	7	170/04
	07-08	4.5010.50	S-H	5	170/03
	09	4.50	S-H	3	160/05
	10/12	60120		10	150/05
	13	7.5013.50	S-H	7	170/03
	14	7.50	S-H	5	140/02
	15-17	-X60	S-F	1	090/03
	18	1.2X	SF	0.5	120/04
	19-22	4.507.50	S-H	3	050/01
	23	4.507.50	S-H	4	030/02
13	00-04	4.507.50240	S-H	3	360/01
	05-07	-X30	S-	1	330/02
	08-12	-X30	F	1	330/03
	13-16	4.50240	IC H	3	350/02
	17-19	60300V0	H	4	340/04
	20-23	60300V0	H	5	330/01
14	00-01	60300	H	4	L&V
	02-04	4.50	SW-	3	L&V
	05-07	4.50	H	5	L&V
	08	60300	H	5	360/01
	09-11	60300V0610	H	8	360/02
	12-16	7.50300610		10	020/04
	17-23	90610V0		12	030/03
15	00-03	60		15	040/05
	04-05	4.5013.50		15	050/07
	06-09	4.5013.50		15	010/08
	10-11	4.5013.50	IC H	6	360/07

FEBRUARY (WEST, HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
15	12-14	3090	S-H	2	360/06
(cont)	15-16	-X30	S-F	1	360/05
	17	3X	SF	0.6	360/03
	18	-X30	S-F	1	350/02
	19-20	-X3090	S-F	1.5	360/03
	21-23	-X4.50	S-F	1	360/04
16	00-01	4.50	S-H	2	L&V
	02-04	2.40	S-H	2	240/02
	05-08	2.40	S-H	3	200/01
	09-10	3060	H	6	210/03
	11-12	4.507.50	H	7	230/05
	13-14	4.5090	H	8	240/04
	15-19	4.5010.50V0240V0610	H	10	230/05
	20-21	10.50240		12	180/04
	22-23	90		12	180/01
17	00-01	2.4090		10	180/02
	02-06	2.4090		10	180/01
	07	2.40	SW-H	3	L&V
	08-10	-X2.40	S-F	1	L&V
	11-12	30	S-H	2	180/02
	13-14	4.50120240	S-H	3	190/01
	15-17	4.50120240	S-H	3	200/03
	18-20	-X4.50120	S-F	1	210/04
	21-23	4.50120	S-H	3	180/01
18	00-04	3090	S-H	3	180/02
	05-07	30	S-H	3	180/04
	08-10	4.50270	IC H	5	160/03
	11-15	60270700	H	7	200/04
	16-17	7.50270700		10	150/03
	18-20	270700		10	110/02
	21-23	90270700	H	7	045/01

FEBRUARY (WEST, HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
19	00-02	90300610	H	7	360/02
	03-04	90300610	H	7	360/02
	05-06	60240	H	6	350/01
	07-11	60240V0610	H	4	340/02
	12	60V0240	H	4	340/03
	13-19	-X3060	S-F	1	340/01
	20-23	-X1.5030V060	ZR-F	1	280/02
20	00-02	-X1.80V0	ZR-F	1.2	L&V
	03-05	-X1.20	ZR-F	1	200/01
	06-08	-X1.2030	R-F	1.3	180/02
	09-10	-X1.204.50	R-F	1.1	180/01
	11-12	-X1.2060	F	1	180/02
	13-14	2.1090	H	3	200/02
	15-16	3010.50240	H	5	210/01
	17-20	120	H	5	220/02
	21-23	6013.50	H	6	L&V
21	00-01	60180370610	H	5	L&V
	02-05	60370700V0	H	5	L&V
	06-08	-X60370760	GF	1	L&V
	09	7.50370760	H	3	L&V
	10-11	7.50370760	H	7	L&V
	12-13	7.50370760		10	L&V
	14-17	90370760		15	L&V
	18-23	760		15	L&V
22	00-01	CLEAR	H	7	L&V
	02-05	CLEAR	H	4	L&V
	06-08	-X30	GF	1.5	L&V
	09-10	4.50	H	3	L&V
	11-12	760	H	7	L&V
	13-14	760		12	L&V

FEBRUARY (WEST, HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
22	15-18	760		15	L&V
(cont)	19-23	760		12	L&V
23	00-02	760	H	7	L&V
	03-05	240760	H	4	L&V
	06-07	240760	H	3	360/01
	08-09	240760	H	4	340/02
	10-11	4.50240760	H	7	330/02
	12	4.50240760	H	10	120/04
	13-15	4.50240760		12	130/05
	16-18	4.50		12	120/3.5
	19-20	4.50300760		15	140/04
	21-23	60300760		15	125/02
24	00-03	7.50760		15	L&V
	04-07	760		12	L&V
	08-11	760	H	7	360/01
	12-13	210760		10	030/02
	14-16	13.50210V0760		12	020/04
	17-18	10.20210	H	8	010/03
	29-20	90210V0700	H	4	350/03
	21-23	7.50210	H	3	340/01
25	00-01	60V0210	H	3	330/02
	02-03	30	S-R-H	2	350/01
	04-10	1.8X	S-R-F	0.6	330/02
	11-13	-X2.40	S-R-F	1	320/03
	14-16	2.404.50	R-H	3	L&V
	17	3060	H	5	L&V
	18-20	3060	H	6	L&V
	21-23	60	H	3	L&V

FEBRUARY (WEST, HILLY TERRAIN) (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
26	00-03	7.50	H	4	L&V
	04-05	-X3060	F	1	L&V
	06-08	-X1.803060	F	0.5	360/01
	09-10	1.8X	F	0.5	360/02
	11-14	1.8X	S-R-F	0.5	340/01
	15-19	-X30	R-F	1	330/02
	20-23	-X2.10	R-F	1	290/02
27	00-02	-X2.10	R-F	1	L&V
	03-08	-X1.5	L-F	0.8	L&V
	09-12	-X1.5060	L-F	1	290/02
	13-21	-X2.4060	R-L-F	1	330/01
	22-23	-X2.4060240	F	1	340/02
28	00-05	-X2.4060240V0610	F	1.5	320/1.5
	06-09	-X1.804.50240610	F	1.2	350/01
	10-13	30240	H	3	020/3.4
	14-16	4.50240	H	4	360/04
	17-22	60240	F	1	340/02
	23	60240	H	5	020/03

FEBRUARY - WESTERN HALF OF FOFEBA
WERRA RIVER AND FULDA RIVER VALLEYS

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
1	00-07	7.50270760		15	250/01
	08-10	7.50270760		12	260/03
	11-13	7.50270	RW-	7	250/04
	14-18	7.5010.50270		10	240/03
	19-21	90270	H	7	230/01
	22-23	7.50210	H	7	240/01
2	00-06	7.50V0210		10	250/05
	07-08	90210		15	260/04
	09	307.50	RW-	7	270/07
	10-11	2.10V060	RW-	4	290/06
	12	3060		15	270/05
	13-17	307.5013.50		20	250/06
	18	307.50	SW-RW-	10	260/05
	19-21	7.50120		15	250/06
	22-23	7.5010.50		15	260/03
3	00-01	7.5010.50270		20	250/05
	02-04	10.50270700		20	240/04
	05-06	10.50270700		20	250/05
	07-08	90270		25	270/07
	09-17	90270700		25	270/05
	18-21	90V0300700		20	240/02
	22-23	90300700		15	260/01
4	00	90300760		15	L&V
	01-02	90270V0760		15	L&V
	03-10	6090		23	330/01
	11-13	7.5010.50240V0760		15	020/02
	14-16	90240760		15	360/02
	17-23	760		12	010/01

FEBRUARY - WESTERN HALF OF FOFEBA (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/M/(M/SEC)
5	00-07	CLEAR	H	7	L&V
	08-13	90	H	7	020/02
	14-17	CLEAR		10	030/3.5
	18-23	CLEAR		15	045/1.5
6	00-05	CLEAR	H	7	L&V
	06-07	CLEAR	H	4	L&V
	08-09	-X2.10	GF	1.25	L&V
	10-11	-X2.10V0	GF	1	L&V
	12-13	2.10V0	H	3	180/01
	14-23	CLEAR	H	5	L&V
7	00-02	300	H	4	L&V
	03-04	10.50300V0	H	6	L&V
	05-06	90300	H	6	230/01
	07	90300	S-	5	240/01
	08-14	60	S-H	3	235/03
	15-18	6010.50	H	7	180/02
	19-23	4.5060	H	5	L&V
8	00-03	4.507.50	H	4	L&V
	04-06	4.50	H	4	L&V
	07	4.507.50	H	3	L&V
	08-09	4.507.50	S-	3	L&V
	10	4.507.50	SW-	5	L&V
	11-12	7.50300610		10	L&V
	13-14	90300610		15	330/03
	15-18	90300700		20	290/01
	19-20	300700		20	L&V
	21-23	300700		20	L&V
9	00-03	90300760		18	250/04
	04-07	7.50150300		18	260/03
	08	7.50150300		12	250/3.5

FEBRUARY - WESTERN HALF OF FOFEBA (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
9	09-13	7.50150270		15	230/04
(cont)	14-17	7.50150300610		12	240/05
	18-23	7.50V0150		10	230/04
10	00-02	7.50		10	230/03
	03-05	60	S-H	7	235/02
	06-09	60	S-H	6	250/01
	10-12	60270610	S-H	6	245/02
	13	60	S-H	3	230/01
	14	-X30	S-F	1	230/02
	15	60	S-H	3	240/02
	16-18	60270610	S-H	5	225/02
	19	60	S-	7	290/1.5
	20-23	60	H	10	295/2.5
11	00-06	60	H	7	L&V
	07-10	60	S-H	4	L&V
	11-12	7.50270	H	6	L&V
	13-16	4.807.50	H	7	230/02
	17-20	7.50270760		10	200/02
	21-23	7.50		12	L&V
12	00-05	4.507.50	H	9	L&V
	06-08	60	S-H	3	180/02
	09-13	6090	S-H	7	110/02
	14-15	60	ICH	7	090/04
	16-23	60	S-H	3	100/01
13	00-05	4.50	S-H	2	L&V
	06-07	-X30	S-F	1.5	045/1.5
	08-11	4.50	S-	3.5	050/3.5
	12-14	4.50	IC H	4	060/2.5
	15-18	6090	H	5	320/02

FEBRUARY - WESTERN HALF OF FOFEBA (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
13	19-20	60300	H	6	300/01
(cont)	21-23	4.50V0300V0	H	4	L&V
14	00-05	4.50	H	4	L&V
	06-07	60	H	3	L&V
	08-10	7.50300610	H	7	L&V
	11-17	7.50610		10	030/04
	18-21	90610		12	035/02
	22-23	7.50610		12	040/1.5
15	06-07	60	H	7	040/03
	08-10	3060	IC	5	070/05
	11	3060	S-	1	080/06
	12-14	-X2.4060	S-F	1	070/05
	15-23	30	S-H	2	040/04
16	00-01	30	S-H	3	300/02
	02-03	1.80	S-H	2	310/1.5
	04-07	30	S-H	3	320/02
	08-11	4.50	S-H	4	240/03
	12	4.5090	H	7	240/04
	13-14	6010.50		12	250/05
	15-18	7.5010.50V0240610	H	8	250/04
	19-21	4.5090240610	H	6	200/1.5
	22-23	4.50	H	5	L&V
17	00-01	4.50	H	4	L&V
	02-05	2.40V04.50	H	3	L&V
	06-08	2.40	S-H	2	L&V
	09-11	-X1.80	S-F	1	L&V
	12-20	2.404.50	S-H	3	250/02
	21-23	4.50120	S-H	4	L&V

FEBRUARY - WESTERM HALF OF FOFEBA (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
18	00-02	2.404.50	H	4	L&V
	03-05	2.404.50	H	4	L&V
	06-07	4.5090	S-H	3	L&V
	08-09	4.5090	H	5	L&V
	10-11	6090	H	7	L&V
	12-16	90270V0700	H	8	230/02
	17-19	90270V0700	H	7	150/01
	20-21	10.50270700	H	8	045/02
	22-23	10.50270700	H	10	030/1.5
19	00	10.50300610	H	6	040/02
	01-02	10.50300610	H	5	040/03
	03-05	120300V0610	H	5	070/03
	06-09	120	H	6	070/05
	10-11	120	H	4	060/06
	12	90120	H	3	040/05
	13-16	-X307.50	S-F	1.5	030/04
	17-18	-X1.202.4060	S-F	1	040/05
	19-23	-X1.202.40	S-F	1	040/03
20	00-03	-X1.20	ZR-F	1.5	L&V
	04-05	-X1.2030	ZR-F	1.75	L&V
	06-09	-X1.8030	ZR-F	1.5	L&V
	10-11	-X1.8030	R-F	2	L&V
	12-13	30	H	3	195/1.5
	14-17	4.5060	H	5	240/03
	18-19	6013.50	H	7	230/1.5
	20-23	7.50150370610	H	8	245/02
21	00-02	60180370610	H	9	L&V
	03	60370700	H	5	L&V
	04-05	-X60370760	GF	1.25	L&V
	06-07	-X60370760	F	0.75	L&V

FEBRUARY - WESTERN HALF OF FOFEBA (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
21	08	-X7.50370760	GF	1.5	L&V
(cont)	09	90370760	H	5	L&V
	10-11	90370760	H	7	150/02
	12-17	90370760		15	200/03
	18-21	760		12	220/04
	22-23	760	H	7	L&V
22	00-02	CLEAR	H	6	L&V
	03-04	2.10	H	4	L&V
	05	-X2.10	GF	1.5	L&V
	06-07	1.5X	F	0.8	L&V
	08	-X2.10	GF	1.4	L&V
	09	2.40	H	2	L&V
	10	30	H	4	L&V
	11-12	760	H	7	L&V
	13-14	760		10	130/02
	15-18	760		15	140/01
	19-23	760		10	L&V
23	00-03	760	H	7	L&V
	04-05	760	H	4	L&V
	06-07	-X30V0240V0760	GF	1.6	030/02
	08-09	-X30	GF	1.3	040/04
	10	4.50	H	3	035/02
	11-16	4.50	H	7	020/04
	17-18	60	H	6	070/2.5
	19-23	4.50	H	5	060/03
24	00	60760	H	8	040/01
	01-08	60760	H	7	080/03
	09-11	7.50210760	H	8	050/03
	12-15	90230760	H	6	060/3.5
	16/17	7.50230760	H	5	030/4.6
	18-23	7.50230	H	3	080/1.7

FEBRUARY - WESTERN HALF OF FOFEBA (cont)

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD/(M/SEC)
25	00-01	60V0210	H	3	L&V
	02-03	4.5060	S-R-H	2.5	L&V
	04-05	-X4.50	S-R-F	1.3	L&V
	06-07	-X4.50210	S-R-F	1	L&V
	08	-X30	S-R-F	1	035/02
	09-11	4.50	S-R-H	3	040/01
	12-13	4.50	R-H	5	050/02
	14	60	R-	5	045/1.5
	15	60	H	6	050/02
	16-19	4.50	H	7	L&V
	20-23	4.50	H	4	L&V
26	00-05	4.50	H	4	L&V
	06-09	-X30	F	1.3	030/01
	10-12	-X2.40	IC F	1	040/01
	13-14	2.40	R-H	2	050/02
	15-17	30	R-H	3	060/01
	18	-X1.5030	R-F	1.3	045/1.5
	19-22	-X1.5030V0300	R-F	1.5	020/02
	23	-X1.50	R-F	1	060/01
27	00-05	-X1.50	L-F	1	L&V
	06-14	0.6X	LF	0.5	035/1.5
	15-19	-X1.50	LF	1.25	L&V
	20-23	-X2.40V060	L-F	1.5	L&V
28	00-01	-X2.4060	F	1	050/02
	02-05	2.4060	H	2.5	060/03
	06-17	4.50	H	3	070/04
	18-23	4.50	H	2	080/03

EASTERN AREA

PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
		HEIGHT CATEGORIES				LOOK			HEIGHT CATEGORIES			
DAY	HOUR(S)	A	B	C	D	ANGLES	DAY	HOUR(S)	A	B	C	D
1	00-12	1.00	1.00	1.00	.87	90°	1	00-06	1.00	1.00	1.00	.92
		.99	.99	.99	.85	50°			.99	.99	.99	.90
		.98	.98	.98	.80	30°			.98	.98	.98	.86
		.97	.97	.97	.65	10°			.97	.97	.97	.76
1	13-21	1.00	1.00	1.00	.62		1	07-11	1.00	1.00	1.00	.81
		.99	.99	.99	.58				.99	.99	.99	.78
		.98	.98	.98	.50				.98	.98	.98	.73
		.97	.97	.97	.32				.97	.97	.97	.55
1	22-23	1.00	1.00	1.00	.08		1	11-23	1.00	1.00	1.00	.70
		.99	.99	.99	.08				.99	.99	.99	.64
		.98	.98	.98	.06				.98	.98	.98	.57
		.97	.97	.97	.03				.97	.97	.97	.39
2	00-02	1.00	1.00	1.00	.08		2	00-08	1.00	1.00	1.00	.70
		.99	.99	.99	.08				.99	.99	.99	.64
		.98	.98	.98	.06				.98	.98	.98	.57
		.97	.97	.97	.03				.97	.97	.97	.39
2	03-04	1.00	1.00	.08	.08		2	09-12	1.00	1.00	1.00	.77
		.99	.99	.08	.08				.99	.99	.99	.73
		.98	.98	.06	.06				.98	.98	.98	.66
		.97	.97	.03	.03				.97	.97	.97	.47
2	05-06	1.00	1.00	.48	.08		2	13-18	1.00	1.00	1.00	.81
		.99	.99	.45	.08				.99	.99	.99	.78
		.98	.98	.38	.06				.98	.98	.98	.73
		.97	.97	.24	.03				.97	.97	.97	.55
2	07-08	1.00	1.00	.81	.48		2	19-23	1.00	1.00	1.00	1.00
		.99	.99	.78	.45				.99	.99	.99	.99
		.98	.98	.73	.38				.98	.98	.98	.98
		.97	.97	.55	.24				.97	.97	.97	.97
2	09-19	1.00	1.00	1.00	.70		3	00-08	1.00	1.00	1.00	.92
		.99	.99	.99	.64				.99	.99	.99	.90
		.98	.98	.98	.57				.98	.98	.98	.86
		.97	.97	.97	.39				.97	.97	.97	.76

A = surface to 150 m
B = surface to 300 m
C = surface to 600 m
D = surface to 1500 m

EASTERN AREA

PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
2	20-23	1.00	1.00	1.00	.81	90°	3	00-13	1.00	1.00	1.00	.92
		.99	.99	.99	.78	50°			.99	.99	.99	.90
		.98	.98	.98	.73	30°			.98	.98	.98	.86
		.97	.97	.97	.55	10°			.97	.97	.97	.76
3	00-06	1.00	1.00	1.00	.92		3	14-18	1.00	1.00	1.00	.62
		.99	.99	.99	.90				.99	.99	.99	.58
		.98	.98	.98	.86				.98	.98	.98	.50
		.97	.97	.97	.76				.97	.97	.97	.32
3	07-13	1.00	1.00	1.00	.70		3	19-23	1.00	1.00	1.00	.81
		.99	.99	.99	.64				.99	.99	.99	.78
		.98	.98	.98	.57				.98	.98	.98	.73
		.97	.97	.97	.39				.97	.97	.97	.55
3	14-23	1.00	1.00	1.00	.87		4	00-03	1.00	1.00	1.00	.31
		.99	.99	.99	.85				.99	.99	.99	.29
		.98	.98	.98	.80				.98	.98	.98	.24
		.97	.97	.97	.65				.97	.97	.97	.16
4	00-01	1.00	1.00	1.00	.62		4	04-11	1.00	1.00	1.00	.08
		.99	.99	.99	.58				.99	.99	.99	.08
		.98	.98	.98	.50				.97	.97	.97	.03
		.97	.97	.97	.32				.97	.97	.97	.03
4	02-05	1.00	1.00	1.00	.08		4	12-15	1.00	1.00	1.00	.48
		.99	.99	.99	.08				.99	.99	.99	.45
		.98	.98	.98	.06				.98	.98	.98	.38
		.97	.97	.97	.03				.97	.97	.97	.24
4	06-10	1.00	1.00	.08	.08		4	16-23	1.00	1.00	1.00	.77
		.99	.99	.08	.08				.99	.99	.99	.73
		.98	.98	.06	.06				.98	.98	.98	.66
		.97	.97	.03	.03				.97	.97	.97	.47
4	11-15	1.00	1.00	1.00	.48		5	00-07	1.00	1.00	1.00	.87
		.99	.99	.99	.45				.99	.99	.99	.85
		.98	.98	.98	.38				.98	.98	.98	.80
		.97	.97	.97	.24				.97	.97	.97	.65

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
4	16-19	1.00	1.00	1.00	.81	90°	5	08-11	1.00	1.00	1.00	.97
		.99	.99	.99	.78	50°			.99	.99	.99	.96
		.98	.98	.98	.73	30°			.98	.98	.98	.93
		.97	.97	.97	.55	10°			.97	.97	.97	.84
4	20-23	1.00	1.00	1.00	.97		5	12-23	1.00	1.00	1.00	1.00
		.97	.97	.97	.96				.99	.99	.99	.99
		.96	.96	.96	.93				.98	.98	.98	.98
		.98	.98	.98	.86				.97	.97	.97	.97
5	00-28	1.00	1.00	1.00	1.00		6	00-07	1.00	1.00	1.00	1.00
		.99	.99	.99	.99				.99	.99	.99	.99
		.98	.98	.98	.98				.98	.98	.98	.98
		.97	.97	.97	.97				.97	.97	.97	.97
6	00-23	1.00	1.00	1.00	1.00		6	08-10	1.00	1.00	1.00	.87
		.99	.99	.99	.99				.99	.99	.99	.85
		.98	.98	.98	.98				.98	.98	.98	.80
		.97	.97	.97	.97				.97	.97	.97	.65
7	00-02	1.00	1.00	1.00	1.00		6	11-12	1.00	1.00	1.00	.77
		.99	.99	.99	.99				.99	.99	.99	.73
		.98	.98	.98	.98				.98	.98	.98	.66
		.97	.97	.97	.97				.97	.97	.97	.47
7	03-06	1.00	1.00	1.00	.87		6	13-15	1.00	1.00	1.00	.70
		.99	.99	.99	.85				.99	.99	.99	.64
		.98	.98	.98	.80				.98	.98	.98	.57
		.97	.97	.97	.64				.97	.97	.97	.39
7	07-16	1.00	1.00	1.00	.62		6	16-18	1.00	1.00	1.00	.97
		.99	.99	.99	.58				.99	.99	.99	.96
		.98	.98	.98	.50				.98	.98	.98	.93
		.97	.97	.97	.32				.97	.97	.97	.86
7	17-19	1.00	1.00	1.00	.08		6	19-23	1.00	1.00	1.00	1.00
		.99	.99	.99	.08				.99	.99	.99	.99
		.98	.98	.98	.06				.98	.98	.98	.98
		.97	.97	.97	.03				.97	.97	.97	.97

EASTERN AREA

PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
7	20-23	1.00	1.00	1.00	.48	90°	7	00-07	1.00	1.00	1.00	1.00
		.99	.99	.99	.45	50°			.99	.99	.99	.99
		.98	.98	.98	.38	30			.98	.98	.98	.98
		.97	.97	.97	.24	10°			.97	.97	.97	.97
8	00-02	1.00	1.00	1.00	.08		7	08	1.00	1.00	1.00	.87
		.99	.99	.99	.08				.99	.99	.99	.85
		.98	.98	.98	.06				.98	.98	.98	.80
		.97	.97	.97	.03				.97	.97	.97	.65
8	03-04	1.00	1.00	1.00	.48		7	09-12	1.00	1.00	1.00	.70
		.99	.99	.99	.45				.99	.99	.99	.64
		.98	.98	.98	.38				.98	.98	.98	.57
		.97	.97	.97	.24				.97	.97	.97	.39
8	05-10	1.00	1.00	1.00	.08		7	13-20	1.00	1.00	1.00	1.00
		.99	.99	.99	.08				.99	.99	.99	.99
		.98	.98	.98	.06				.98	.98	.98	.98
		.97	.97	.97	.03				.97	.97	.97	.97
8	11-12	1.00	1.00	1.00	.62		7	21-23	1.00	1.00	1.00	.97
		.99	.99	.99	.58				.99	.99	.99	.96
		.98	.98	.98	.50				.98	.98	.98	.93
		.97	.97	.97	.32				.97	.97	.97	.86
8	13-17	1.00	1.00	1.00	.70		8	00-02	1.00	1.00	.92	.08
		.99	.99	.99	.64				.99	.99	.90	.08
		.98	.98	.98	.57				.98	.98	.86	.06
		.97	.97	.97	.39				.97	.97	.76	.03
8	18-23	1.00	1.00	1.00	.81		8	03-04	1.00	1.00	1.00	.81
		.99	.99	.99	.78				.99	.99	.99	.78
		.98	.98	.98	.73				.97	.97	.97	.73
		.97	.97	.97	.55				.97	.97	.97	.55
9	00-10	1.00	1.00	1.00	.92		8	05-08	1.00	1.00	1.00	.77
		.99	.99	.99	.90				.99	.99	.99	.73
		.98	.98	.98	.86				.98	.98	.98	.66
		.97	.97	.97	.76				.97	.97	.97	.47

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN						LOOK	RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	ANGLES	DAY	HOUR(S)	A	B	C	D
9	11-14	1.00	1.00	1.00	.48	90°	8	09-11	1.00	1.00	1.00	.87
		.99	.99	.99	.45	50°			.99	.99	.99	.85
		.98	.98	.98	.38	30°			.98	.98	.98	.80
		.97	.97	.97	.24	10°			.97	.97	.97	.65
9	15-17	1.00	1.00	1.00	.08		8	12-16	1.00	1.00	1.00	[illegible]
		.99	.99	.99	.08				.99	.99	.99	[illegible]
		.98	.98	.98	.06				.98	.98	.98	[illegible]
		.97	.97	.97	.03				.97	.97	.97	[illegible]
9	18-23	1.00	1.00	.70	.70		8	17-23	1.00	1.00	1.00	1.00
		.99	.99	.64	.64				.99	.99	.99	.99
		.98	.98	.57	.57				.98	.98	.98	.98
		.97	.97	.39	.39				.97	.97	.97	.97
10	00-03	1.00	1.00	1.00	.87		9	00-09	1.00	1.00	1.00	1.00
		.99	.99	.99	.85				.99	.99	.99	.93
		.98	.98	.98	.80				.98	.98	.98	.93
		.97	.97	.97	.65				.97	.97	.97	.86
10	04-05	1.00	1.00	1.00	.62		9	10-12	1.00	1.00	1.00	.87
		.99	.99	.99	.58				.99	.99	.99	.85
		.98	.98	.98	.50				.98	.98	.98	.80
		.97	.97	.97	.32				.97	.97	.97	.65
10	06-11	1.00	1.00	1.00	.08		9	13-19	1.00	1.00	1.00	.70
		.99	.99	.99	.08				.99	.99	.99	.64
		.98	.98	.98	.06				.98	.98	.98	.57
		.97	.97	.97	.03				.97	.97	.97	.39
10	12-14	1.00	1.00	.08	.08		9	20-23	1.00	1.00	1.00	.81
		.99	.99	.08	.08				.99	.99	.99	.78
		.98	.98	.06	.06				.98	.98	.98	.73
		.97	.97	.03	.03				.97	.97	.97	.55
10	15-17	1.00	1.00	.31	.31		10	00-03	1.00	1.00	1.00	1.00
		.99	.99	.29	.29				.99	.99	.99	.99
		.98	.98	.24	.24				.98	.98	.98	.98
		.97	.97	.16	.16				.97	.97	.97	.97

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
12	11-14	1.00	1.00	1.00	.81	90°	11	19-20	1.00	1.00	1.00	.70
		.99	.99	.99	.78	50°			.99	.99	.99	.64
		.98	.98	.98	.73	30°			.98	.98	.98	.57
		.97	.97	.97	.55	10°			.97	.97	.97	.39
12	15-16	1.00	1.00	1.00	.77		11	21-23	1.00	1.00	1.00	.87
		.99	.99	.99	.73				.99	.99	.99	.85
		.98	.98	.98	.66				.98	.98	.98	.80
		.97	.97	.97	.47				.97	.97	.97	.65
12	17-19	1.00	1.00	1.00	.08		12	00-02	1.00	1.00	1.00	.81
		.99	.99	.99	.08				.99	.99	.99	.78
		.98	.98	.98	.06				.98	.98	.98	.73
		.97	.97	.97	.03				.97	.97	.97	.55
12	20-23	1.00	1.00	.08	.08		12	03-14	1.00	1.00	1.00	.70
		.99	.99	.08	.08				.99	.99	.99	.64
		.98	.98	.06	.06				.98	.98	.98	.57
		.97	.97	.03	.03				.97	.97	.97	.39
13	00-06	1.00	1.00	.08	.08		12	15-19	1.00	1.00	1.00	.08
		.99	.99	.08	.08				.99	.99	.99	.08
		.98	.98	.06	.06				.98	.98	.98	.06
		.97	.97	.03	.03				.97	.97	.97	.03
13	07-11	1.00	1.00	1.00	.08		12	20-21	1.00	1.00	1.00	.08
		.99	.99	.99	.08				.99	.99	.99	.08
		.98	.98	.98	.06				.98	.98	.98	.03
		.97	.97	.97	.03				.97	.97	.97	.03
13	12-13	1.00	1.00	1.00	.62		12	22-23	1.00	.97	.08	.08
		.99	.99	.99	.58				.99	.96	.08	.08
		.98	.98	.98	.50				.98	.93	.06	.06
		.97	.97	.97	.32				.97	.86	.03	.03
13	14-21	1.00	1.00	1.00	.81		13	00-16	1.00	.81	.08	.08
		.99	.99	.99	.78				.99	.78	.08	.08
		.98	.98	.98	.73				.98	.73	.06	.06
		.97	.97	.97	.55				.97	.55	.03	.03

EASTERN AREA

PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
13	22-23	1.00	1.00	1.00	.70	90°
		.99	.99	.99	.64	50°
		.98	.98	.98	.57	30°
		.97	.97	.97	.39	10°
14	00-02	1.00	1.00	1.00	.81	
		.99	.99	.99	.78	
		.98	.98	.98	.73	
		.97	.97	.97	.55	
14	03-06	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
14	07	1.00	1.00	1.00	.31	
		.99	.99	.99	.29	
		.98	.08	.98	.24	
		.97	.97	.97	.16	
14	08-17	1.00	1.00	1.00	.87	
		.99	.99	.99	.85	
		.98	.98	.98	.80	
		.97	.97	.97	.65	
14	18-23	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
15	00-01	1.00	1.00	1.00	.31	
		.99	.99	.99	.29	
		.98	.98	.98	.24	
		.97	.97	.97	.16	
15	02-07	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	

RIVER VALLEY

DAY	HOUR(S)	A	B	C	D
13	17	1.00	.62	.08	.08
		.99	.58	.08	.08
		.98	.50	.06	.06
		.97	.32	.03	.03
13	18-19	1.00	.08	.08	.08
		.99	.08	.08	.08
		.98	.06	.06	.06
		.97	.03	.03	.03
13	20-21	1.00	.87	.08	.08
		.99	.85	.08	.08
		.98	.80	.06	.06
		.97	.65	.03	.03
13	22-23	1.00	1.00	.70	.70
		.99	.99	.64	.64
		.98	.98	.57	.57
		.97	.97	.39	.39
14	00-06	1.00	1.00	1.00	.87
		.99	.99	.99	.85
		.98	.98	.98	.80
		.97	.97	.97	.65
14	07-13	1.00	1.00	1.00	.70
		.99	.99	.99	.64
		.98	.98	.98	.57
		.97	.97	.97	.39
14	14-19	1.00	1.00	1.00	.87
		.99	.99	.99	.85
		.98	.98	.98	.80
		.97	.97	.97	.65
14	20-21	1.00	1.00	1.00	.77
		.99	.99	.99	.73
		.98	.98	.98	.66
		.97	.97	.97	.47

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
10	18-23	1.00	1.00	.08	.08	90°	10	04-06	1.00	1.00	1.00	.92
		.99	.99	.08	.08	50°			.99	.99	.99	.90
		.98	.98	.06	.06	30°			.98	.98	.98	.86
		.97	.97	.03	.03	10°			.97	.97	.97	.76
11	00-08	1.00	1.00	1.00	.08		10	07-14	1.00	1.00	1.00	.70
		.99	.99	.99	.08				.99	.99	.99	.64
		.98	.98	.98	.06				.98	.98	.98	.57
		.97	.97	.97	.03				.97	.97	.97	.39
11	09-12	1.00	1.00	1.00	.31		10	15-17	1.00	1.00	1.00	.08
		.99	.99	.99	.29				.99	.99	.99	.08
		.98	.98	.98	.24				.98	.98	.98	.06
		.97	.97	.97	.16				.97	.97	.97	.03
11	13-20	1.00	1.00	1.00	.48		10	18-23	1.00	1.00	.81	.08
		.99	.99	.99	.45				.99	.99	.78	.08
		.98	.98	.98	.38				.98	.98	.73	.06
		.97	.97	.97	.24				.97	.97	.55	.03
11	21-22	1.00	1.00	1.00	.08		11	00-05	1.00	1.00	1.00	.08
		.99	.99	.99	.08				.99	.99	.99	.08
		.98	.98	.98	.06				.98	.98	.98	.06
		.97	.97	.97	.03				.97	.97	.97	.03
11	23	1.00	1.00	.08	.08		11	06-11	1.00	1.00	1.00	.62
		.99	.99	.08	.08				.99	.99	.99	.58
		.98	.98	.06	.06				.98	.98	.98	.50
		.97	.97	.03	.03				.97	.97	.97	.32
12	00-08	1.00	1.00	.08	.08		11	12-14	1.00	1.00	1.00	.81
		.99	.99	.08	.08				.99	.99	.99	.78
		.98	.98	.06	.06				.98	.98	.98	.73
		.97	.97	.03	.03				.97	.97	.97	.55
12	09-10	1.00	1.00	1.00	.62		11	15-18	1.00	1.00	1.00	.77
		.99	.99	.99	.58				.99	.99	.99	.73
		.98	.98	.98	.50				.98	.98	.98	.66
		.97	.97	.97	.32				.97	.97	.97	.47

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
15	02-07	1.00	1.00	1.00	.08	90°	14	22-23	1.00	1.00	1.00	.08
		.99	.99	.99	.08	50°			.99	.99	.99	.08
		.98	.98	.98	.06	30°			.98	.98	.98	.06
		.97	.97	.97	.03	10°			.97	.97	.97	.03
15	08-10	1.00	1.00	1.00	.48		15	00-01	1.00	1.00	1.00	.08
		.99	.99	.99	.45				.99	.99	.99	.08
		.98	.98	.98	.38				.98	.98	.98	.05
		.97	.97	.97	.24				.97	.97	.97	.03
15	11-15	1.00	1.00	.08	.08		15	02	1.00	1.00	1.00	.62
		.99	.99	.08	.08				.99	.99	.99	.58
		.98	.98	.06	.06				.98	.98	.98	.50
		.97	.97	.03	.03				.97	.97	.97	.32
15	16-20	1.00	1.00	.08	.08		15	03-05	1.00	1.00	1.00	.81
		.99	.99	.08	.08				.99	.99	.99	.78
		.98	.98	.06	.06				.98	.98	.98	.73
		.97	.97	.03	.03				.97	.97	.97	.55
15	21-22	1.00	.08	.08	.08		15	06-0	1.00	1.00	.92	.08
		.99	.08	.08	.08				.99	.99	.90	.08
		.98	.06	.06	.06				.98	.98	.86	.06
		.97	.03	.03	.03				.97	.97	.76	.02
16	00-12	1.00	1.00	.08	.08		15	10-14	1.00	.87	.08	.08
		.99	.99	.08	.08				.99	.85	.08	.08
		.98	.98	.06	.06				.98	.80	.06	.06
		.97	.97	.03	.03				.97	.65	.03	.03
16	13-15	1.00	1.00	1.00	.08		15	15-17	.08	.08	.08	.08
		.99	.99	.99	.08				.08	.08	.08	.08
		.98	.98	.98	.06				.06	.06	.06	.06
		.97	.97	.97	.03				.03	.03	.03	.03
16	16-20	1.00	1.00	1.00	.62		15	18-22	1.00	.08	.08	.08
		.99	.99	.99	.58				.99	.08	.08	.08
		.08	.98	.98	.50				.98	.06	.06	.06
		.97	.97	.97	.32				.97	.03	.03	.03

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
16	21-23	1.00	1.00	1.00	.08	90°	15	23	1.00	.08	.08	.08
		.99	.99	.99	.08	50°			.99	.08	.08	.08
		.98	.98	.98	.06	30°			.97	.03	.03	.03
		.97	.97	.97	.03	10°			.97	.03	.03	.03
17	00-06	1.00	1.00	1.00	.08		16	00-05	1.00	.08	.08	.08
		.99	.99	.99	.08				.99	.08	.08	.08
		.98	.98	.98	.06				.98	.06	.06	.06
		.97	.97	.97	.03				.97	.03	.03	.03
17	07-09	1.00	1.00	.08	.08		16	06-10	1.00	1.00	1.00	.08
		.99	.99	.08	.08				.99	.99	.99	.08
		.98	.98	.06	.06				.98	.98	.98	.06
		.97	.97	.03	.03				.97	.97	.97	.03
17	10-11	1.00	1.00	.08	.08		16	11-14	1.00	1.00	1.00	.48
		.99	.99	.08	.08				.99	.99	.99	.45
		.98	.98	.06	.06				.98	.98	.98	.38
		.97	.97	.03	.03				.97	.97	.97	.24
17	12-16	1.00	1.00	1.00	.08		16	15-22	1.00	1.00	1.00	.77
		.99	.99	.99	.08				.99	.99	.99	.73
		.98	.98	.98	.06				.98	.98	.98	.66
		.97	.97	.97	.03				.97	.97	.97	.47
17	17-23	1.00	1.00	.08	.08		16	23	1.00	1.00	1.00	.92
		.99	.99	.08	.08				.99	.99	.99	.90
		.98	.98	.06	.06				.98	.98	.98	.83
		.97	.97	.03	.03				.97	.97	.97	.76
18	00-02	1.00	1.00	.08	.08		17	00-02	1.00	1.00	1.00	.97
		.99	.99	.08	.08				.99	.99	.99	.96
		.98	.98	.06	.06				.98	.98	.98	.93
		.97	.97	.03	.03				.97	.97	.97	.86
18	03-04	1.00	1.00	.77	.77		17	03-04	1.00	1.00	1.00	.81
		.99	.99	.73	.73				.99	.99	.99	.78
		.98	.98	.66	.66				.98	.98	.98	.73
		.97	.97	.47	.47				.97	.97	.97	.55

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
18	00-02	1.00	1.00	.08	.08	90°	17	05-08	1.00	1.00	.08	.08
		.99	.99	.08	.08	50°			.99	.99	.08	.08
		.98	.98	.06	.06	30°			.98	.98	.06	.06
		.97	.97	.03	.03	10°			.97	.97	.03	.03
18	03-04	1.00	1.00	.77	.77		17	09-11	1.00	1.00	1.00	[illegible]
		.99	.99	.73	.73				.99	.99	.99	[illegible]
		.98	.98	.66	.66				.98	.98	.98	[illegible]
		.97	.97	.47	.47				.97	.97	.97	[illegible]
18	05-08	1.00	1.00	1.00	.87		17	12-14	1.00	1.00	1.00	.77
		.99	.99	.99	.85				.99	.99	.99	.73
		.98	.98	.98	.80				.98	.98	.98	[illegible]
		.97	.97	.97	.65				.97	.97	.97	.47
18	09-23	1.00	1.00	1.00	1.00		17	15-17	1.00	1.00	1.00	.81
		.99	.99	.99	.99				.99	.99	.99	[illegible]
		.98	.98	.98	.98				.98	.98	.98	[illegible]
		.97	.97	.97	.97				.97	.97	.97	.55
19	00-01	1.00	1.00	1.00	1.00		17	18-23	1.00	1.00	1.00	1.00
		.99	.99	.99	.99				.99	.99	.99	.99
		.98	.98	.98	.98				.98	.98	.98	.98
		.97	.97	.97	.97				.97	.97	.97	.97
19	02-03	1.00	1.00	1.00	.97		18	00-01	1.00	1.00	1.00	1.00
		.99	.99	.99	.96				.99	.99	.99	.99
		.98	.98	.98	.93				.98	.98	.98	.98
		.97	.97	.97	.86				.97	.97	.97	.97
19	04-05	1.00	1.00	.97	.81		18	02-09	1.00	1.00	1.00	.92
		.99	.99	.96	.78				.99	.99	.99	.90
		.98	.98	.93	.73				.98	.98	.98	.86
		.97	.97	.86	.55				.97	.97	.97	.76
19	06	1.00	1.00	.77	.48		18	10-23	1.00	1.00	1.00	1.00
		.99	.99	.73	.45				.99	.99	.99	.99
		.98	.98	.66	.38				.98	.98	.98	.98
		.97	.97	.47	.24				.97	.97	.97	.97

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
19	07-13	1.00	1.00	.08	.08	90°	19	00-08	1.00	1.00	1.00	1.00
		.99	.99	.08	.08	50°			.99	.99	.99	.99
		.98	.98	.06	.06	30°			.98	.98	.98	.98
		.97	.97	.03	.03	10°			.97	.97	.97	.97
19	14-15	1.00	.92	.08	.08		19	9-10	1.00	1.00	1.00	.92
		.99	.90	.08	.08				.99	.99	.99	.90
		.98	.86	.06	.06				.08	.98	.98	.86
		.97	.76	.03	.03				.97	.97	.97	.76
19	16-18	1.00	.77	.08	.08		19	11-16	1.00	1.00	1.00	.08
		.99	.73	.08	.08				.99	.99	.99	.08
		.98	.66	.06	.06				.98	.98	.98	.06
		.97	.47	.03	.03				.97	.97	.97	.03
19	19-23	1.00	.08	.08	.08		19	17-20	1.00	1.00	.81	.08
		.99	.08	.08	.08				.99	.99	.78	.08
		.98	.06	.06	.06				.99	.99	.73	.06
		.97	.03	.03	.03				.97	.97	.55	.03
20	00-10	1.00	.08	.08	.08		19	21-23	.87	.87	.08	.08
		.99	.08	.08	.08				.85	.85	.08	.08
		.98	.06	.06	.06				.80	.80	.06	.06
		.97	.03	.03	.03				.65	.65	.03	.03
20	11-14	1.00	1.00	.08	.08		20	00-10	1.00	.81	.08	.08
		.99	.99	.08	.08				.99	.78	.08	.08
		.98	.98	.06	.06				.98	.73	.08	.06
		.97	.97	.03	.03				.97	.55	.03	.03
20	15-15	1.00	1.00	1.00	.08		20	11-13	1.00	1.00	1.00	.48
		.99	.99	.99	.08				.99	.99	.99	.45
		.98	.98	.98	.06				.98	.98	.98	.38
		.97	.97	.97	.03				.97	.97	.97	.24
20	17-21	1.00	1.00	1.00	.31		20	14-19	1.00	1.00	1.00	.77
		.99	.99	.99	.29				.99	.99	.99	.73
		.98	.98	.98	.24				.98	.98	.66	.66
		.97	.97	.97	.16				.97	.97	.97	.47

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
23	13-23	1.00	1.00	.08	.08	90°
		.99	.99	.08	.08	50°
		.98	.98	.06	.06	30°
		.97	.97	.03	.03	10°
24	00-05	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
24	06-10	1.00	.08	.08	.08	
		.99	.08	.08	.08	
		.98	.06	.06	.06	
		.97	.03	.03	.03	
24	11-23	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
25	00-03	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
25	04-07	1.00	.87	.08	.08	
		.99	.85	.08	.08	
		.98	.80	.06	.06	
		.97	.65	.03	.03	
25	08-17	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
25	18-23	1.00	.08	.08	.08	
		.99	.08	.08	.08	
		.98	.06	.06	.06	
		.97	.03	.03	.03	

RIVER VALLEY

DAY	HOUR(S)	A	B	C	D
23	14	.70	.70	.70	.08
		.64	.64	.64	.08
		.57	.57	.57	.06
		.39	.39	.39	.03
23	15-16	.81	.81	.81	.08
		.78	.78	.78	.08
		.73	.73	.73	.06
		.55	.55	.55	.03
23	17-23	1.00	1.00	1.00	.08
		.99	.99	.99	.08
		.98	.98	.98	.06
		.97	.97	.97	.03
24	00-04	1.00	1.00	.87	.08
		.99	.99	.85	.08
		.98	.98	.80	.06
		.97	.97	.65	.03
24	05-10	.81	.08	.08	.08
		.78	.08	.08	.08
		.73	.06	.06	.06
		.55	.03	.03	.03
24	11-23	.08	.08	.08	.08
		.08	.08	.08	.08
		.06	.06	.06	.06
		.03	.03	.03	.03
25	00-04	.08	.08	.08	.08
		.08	.08	.08	.08
		.06	.06	.06	.06
		.03	.03	.03	.03
25	05-18	1.00	.08	.08	.08
		.99	.08	.08	.08
		.98	.06	.06	.06
		.97	.03	.03	.03

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE OF SIGHT

FEBRUARY

HILLY TERRAIN

DAY	HOUR(S)	LOOK ANGLES	A	B	C	D
26	00-23		1.00	.08	.08	.08
			.99	.08	.08	.08
			.98	.06	.06	.06
			.97	.03	.03	.03
27	00-09		.08	.08	.08	.08
			.08	.08	.08	.08
			.06	.06	.06	.06
			.03	.03	.03	.03
27	10-23		1.00	.08	.08	.08
			.99	.08	.08	.08
			.98	.06	.06	.06
			.97	.03	.03	.03
28	00-03		1.00	.08	.08	.08
			.99	.08	.08	.08
			.98	.06	.06	.06
			.97	.03	.03	.03
28	04-12		.08	.08	.08	.08
			.08	.08	.08	.08
			.06	.06	.06	.06
			.03	.03	.03	.03
28	13-23		1.00	.08	.08	.08
			.99	.08	.08	.08
			.98	.06	.06	.06
			.97	.03	.03	.03

RIVER VALLEY

DAY	HOUR(S)	A	B	C	D
25	19-23	.08	.08	.08	.08
		.08	.08	.08	.08
		.06	.06	.06	.06
		.03	.03	.03	.03
26	00-23	.08	.08	.08	.08
		.08	.08	.08	.08
		.06	.06	.06	.06
		.03	.03	.03	.03
27	00-18	.08	.08	.08	.08
		.08	.08	.08	.08
		.06	.06	.06	.06
		.03	.03	.03	.03
27	19-23	.81	.08	.08	.08
		.78	.08	.08	.08
		.73	.06	.06	.06
		.55	.03	.03	.03
28	00-04	.81	.08	.08	.08
		.78	.08	.08	.08
		.73	.06	.06	.06
		.55	.03	.03	.03
28	05-11	.08	.08	.08	.08
		.08	.08	.08	.08
		.06	.06	.06	.06
		.03	.03	.03	.03
28	12-21	.81	.08	.08	.08
		.78	.08	.08	.08
		.73	.06	.06	.06
		.55	.03	.03	.03
28	22-23	1.00	.08	.08	.08
		.99	.08	.08	.08
		.98	.06	.06	.06
		.97	.03	.03	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
1	00-05	1.00	1.00	1.00	.97	90°	1	00-10	1.00	1.00	1.00	.87
		.99	.99	.99	.96	50°			.99	.99	.99	.85
		.98	.98	.98	.98	30°			.98	.98	.98	.80
		.97	.97	.97	.86	10°			.97	.97	.97	.65
1	06-09	1.00	1.00	1.00	.87		1	11-13	1.00	1.00	1.00	.77
		.99	.99	.99	.85				.99	.99	.99	.73
		.98	.98	.98	.80				.98	.98	.98	.66
		.97	.97	.97	.65				.97	.97	.97	.47
1	10-11	1.00	1.00	1.00	.77		1	14-18	1.00	1.00	1.00	.81
		.99	.99	.99	.73				.99	.99	.99	.78
		.98	.98	.98	.66				.98	.98	.98	.73
		.97	.97	.97	.47				.97	.97	.97	.55
1	12-14	1.00	1.00	.92	.08		1	19-23	1.00	1.00	1.00	.70
		.99	.99	.90	.08				.99	.99	.99	.64
		.98	.98	.86	.06				.98	.98	.98	.57
		.97	.97	.76	.03				.97	.97	.97	.39
1	15-18	1.00	1.00	1.00	.31		2	00-06	1.00	1.00	1.00	.31
		.99	.99	.99	.29				.99	.99	.99	.29
		.98	.98	.98	.24				.98	.98	.98	.24
		.97	.97	.97	.16				.97	.97	.97	.16
1	19-21	1.00	1.00	1.00	.08		2	07-08	1.00	1.00	1.00	.48
		.99	.99	.99	.08				.99	.99	.99	.45
		.98	.98	.98	.06				.98	.98	.98	.38
		.97	.97	.97	.03				.97	.97	.97	.24
1	22-23	1.00	1.00	1.00	.08		2	09	1.00	1.00	.92	.08
		.99	.99	.99	.08				.99	.99	.90	.08
		.98	.98	.98	.06				.98	.98	.86	.06
		.97	.97	.97	.03				.97	.97	.76	.03
2	00-04	1.00	1.00	1.00	.08		2	10-11	1.00	.77	.77	.08
		.99	.99	.99	.08				.99	.73	.73	.08
		.98	.98	.98	.06				.98	.66	.66	.06
		.97	.97	.97	.03				.97	.47	.47	.03
2	05-10	1.00	1.00	1.00	.48		2	12-17	1.00	1.00	.81	.08
		.99	.99	.99	.45				.99	.99	.78	.08
		.98	.98	.98	.38				.98	.98	.73	.06
		.97	.97	.97	.24				.97	.97	.55	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
2	11-14	1.00	1.00	.77	.08	90°	2	18	1.00	1.00	.62	.08
		.99	.99	.73	.08	50°			.99	.99	.58	.08
		.98	.98	.66	.06	30°			.98	.98	.50	.06
		.97	.97	.47	.03	10°			.97	.97	.32	.03
2	17-19	1.00	1.00	.81	.08		2	19-23	1.00	1.00	1.00	.08
		.99	.99	.78	.08				.99	.99	.99	.08
		.98	.98	.73	.06				.98	.98	.98	.06
		.97	.97	.55	.03				.97	.97	.97	.03
2	20	1.00	.77	.77	.08		3	00-04	1.00	1.00	1.00	.70
		.99	.73	.73	.08				.99	.99	.99	.64
		.98	.66	.66	.06				.98	.98	.98	.57
		.97	.47	.47	.03				.97	.97	.97	.39
2	21-23	1.00	1.00	1.00	.62		3	05-08	1.00	1.00	1.00	.81
		.99	.99	.99	.58				.99	.99	.99	.78
		.98	.98	.98	.50				.98	.98	.98	.73
		.97	.97	.97	.32				.97	.97	.97	.55
3	00-10	1.00	1.00	1.00	.81		3	09-21	1.00	1.00	1.00	.77
		.99	.99	.99	.78				.99	.99	.99	.73
		.98	.98	.98	.73				.98	.98	.98	.66
		.97	.97	.97	.55				.97	.97	.97	.47
3	02-10	1.00	1.00	1.00	.70		3	22-23	1.00	1.00	1.00	.87
		.99	.99	.99	.64				.99	.99	.99	.85
		.98	.98	.98	.57				.98	.98	.98	.80
		.97	.97	.97	.39				.97	.97	.97	.65
3	11-12	1.00	1.00	1.00	.62		4	00	1.00	1.00	1.00	.81
		.99	.99	.99	.58				.99	.99	.99	.78
		.98	.98	.98	.50				.98	.98	.98	.73
		.97	.97	.97	.32				.97	.97	.97	.55
3	13-15	1.00	1.00	1.00	.08		4	01-02	1.00	1.00	1.00	.62
		.99	.99	.99	.08				.99	.99	.99	.58
		.98	.98	.98	.06				.98	.98	.98	.50
		.97	.97	.97	.03				.97	.97	.97	.32
3	16-17	1.00	1.00	1.00	.31		4	03-10	1.00	1.00	1.00	.08
		.99	.99	.99	.29				.99	.99	.99	.08
		.98	.98	.98	.24				.98	.98	.98	.06
		.97	.97	.97	.16				.97	.97	.97	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
3	18-20	1.00	1.00	1.00	.77	90°	4	3-10	1.00	1.00	1.00	.08
		.99	.99	.99	.73	50°			.99	.99	.99	.08
		.98	.98	.98	.66	30°			.98	.98	.98	.06
		.97	.97	.97	.47	10°			.97	.97	.97	.03
3	21-23	1.00	1.00	1.00	.81		4	11-13	1.00	1.00	1.00	.81
		.99	.99	.99	.78				.99	.99	.99	.78
		.98	.98	.98	.73				.98	.98	.98	.73
		.97	.97	.97	.55				.97	.97	.97	.55
4	00-02	1.00	1.00	1.00	.87		4	14-23	1.00	1.00	1.00	.87
		.99	.99	.99	.85				.99	.99	.99	.85
		.98	.98	.98	.80				.98	.98	.98	.80
		.97	.97	.97	.65				.97	.97	.97	.65
4	03-08	1.00	1.00	1.00	.77		5	00-07	1.00	1.00	1.00	1.00
		.99	.99	.99	.73				.99	.99	.99	.99
		.98	.98	.98	.66				.98	.98	.98	.98
		.97	.97	.97	.47				.97	.97	.97	.97
4	09-10	1.00	1.00	.97	.08		5	08-13	1.00	1.00	1.00	.97
		.99	.99	.96	.08				.99	.99	.99	.96
		.98	.98	.93	.06				.98	.98	.98	.93
		.97	.97	.86	.03				.97	.97	.97	.86
4	11	1.00	1.00	.97	.48		5	14-23	1.00	1.00	1.00	1.00
		.99	.99	.96	.45				.99	.99	.99	.99
		.98	.98	.93	.38				.98	.98	.98	.98
		.97	.97	.86	.24				.97	.97	.97	.97
4	12-16	1.00	1.00	1.00	.87		6	00-07	1.00	1.00	1.00	1.00
		.99	.99	.99	.85				.99	.99	.99	.99
		.98	.98	.98	.80				.98	.98	.98	.98
		.97	.97	.97	.65				.97	.97	.97	.97
4	17-18	1.00	1.00	1.00	.77		6	08-09	1.00	.92	.92	.92
		.99	.99	.99	.73				.99	.90	.90	.90
		.98	.98	.98	.66				.98	.86	.86	.86
		.97	.97	.97	.47				.97	.76	.76	.76
4	19-23	1.00	1.00	1.00	.87		6	10-11	1.00	.31	.31	.31
		.99	.99	.99	.85				.99	.29	.29	.29
		.98	.98	.98	.80				.98	.24	.24	.24
		.97	.97	.97	.65				.97	.16	.16	.16

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
5	00-06	1.00	1.00	1.00	1.00	90°	6	12-13	1.00	.77	.77	.77
		.99	.99	.99	.99	50°			.99	.73	.73	.73
		.98	.98	.98	.98	30°			.98	.66	.66	.66
		.97	.97	.97	.97	10°			.97	.47	.47	.47
5	07-09	1.00	1.00	1.00	.92		6	14-23	1.00	1.00	1.00	1.00
		.99	.99	.99	.90				.99	.99	.99	.99
		.98	.98	.98	.86				.98	.98	.98	.98
		.97	.97	.97	.76				.97	.97	.97	.97
5	10-23	1.00	1.00	1.00	1.00		7	00-02	1.00	1.00	1.00	1.00
		.99	.99	.99	.99				.99	.99	.99	.99
		.98	.98	.98	.98				.98	.98	.98	.98
		.97	.97	.97	.97				.97	.97	.97	.97
6	00-04	1.00	1.00	1.00	1.00		7	03-04	1.00	1.00	1.00	.87
		.99	.99	.99	.99				.99	.99	.99	.85
		.98	.98	.98	.98				.98	.98	.98	.80
		.97	.97	.97	.97				.97	.97	.97	.65
6	05	.92	.92	.92	.92		7	05-07	1.00	1.00	1.00	.77
		.90	.90	.90	.90				.99	.99	.99	.73
		.86	.86	.86	.86				.98	.98	.98	.66
		.76	.76	.76	.76				.97	.97	.97	.47
6	06-12	.08	.08	.08	.08	0	7	08-18	1.00	1.00	1.00	.08
		.08	.08	.08	.98				.99	.99	.99	.08
		.06	.06	.06	.06				.98	.98	.98	.06
		.03	.03	.03	.03				.97	.97	.97	.03
6	13-14	1.00	.81	.81	.81		7	19-23	1.00	1.00	.97	.08
		.99	.78	.78	.78				.99	.99	.96	.08
		.98	.73	.73	.73				.98	.98	.93	.06
		.97	.55	.55	.55				.97	.97	.86	.03
6	15-23	1.00	1.00	1.00	1.00		8	00-03	1.00	1.00	.70	.08
		.99	.99	.99	.99				.99	.99	.64	.08
		.98	.98	.98	.98				.98	.98	.57	.06
		.97	.97	.97	.97				.97	.97	.39	.03
7	00-01	1.00	1.00	1.00	1.00		8	04-06	1.00	1.00	.08	.08
		.99	.99	.99	.99				.99	.99	.08	.08
		.98	.98	.98	.98				.98	.98	.06	.06
		.97	.97	.97	.97				.97	.97	.03	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
7	02-04	1.00	1.00	1.00	.97	90°	8	07-09	1.00	1.00	.31	.08
		.99	.99	.99	.96	50°			.99	.99	.29	.08
		.98	.98	.98	.93	30°			.98	.98	.24	.06
		.97	.97	.97	.86	10°			.97	.97	.16	.03
7	05-07	1.00	1.00	1.00	.70		8	10	1.00	1.00	.81	.08
		.99	.99	.99	.64				.99	.99	.78	.08
		.98	.98	.98	.57				.98	.98	.73	.06
		.97	.97	.97	.39				.97	.97	.55	.03
7	08-12	1.00	1.00	1.00	.08		8	11-14	1.00	1.00	1.00	.48
		.99	.99	.99	.08				.99	.99	.99	.45
		.98	.98	.98	.06				.98	.98	.98	.38
		.97	.97	.97	.03				.97	.97	.97	.24
7	13-15	1.00	1.00	1.00	.81		8	15-18	1.00	1.00	1.00	.87
		.99	.99	.99	.78				.99	.99	.99	.85
		.98	.98	.98	.73				.98	.98	.98	.80
		.97	.97	.97	.55				.97	.97	.97	.65
7	16-23	1.00	1.00	.48	.08		8	19-23	1.00	1.00	1.00	1.00
		.99	.99	.45	.08				.99	.99	.99	.99
		.98	.98	.38	.06				.98	.98	.98	.98
		.97	.97	.24	.03				.97	.97	.97	.97
8	00-02	1.00	1.00	.92	.48		9	00-07	1.00	1.00	1.00	.77
		.99	.99	.90	.45				.99	.99	.99	.73
		.98	.98	.86	.38				.98	.98	.98	.66
		.97	.97	.76	.24				.97	.97	.97	.47
8	03-06	1.00	1.00	.92	.81		9	09-17	1.00	1.00	1.00	.81
		.99	.99	.90	.78				.99	.99	.99	.78
		.98	.98	.86	.73				.98	.98	.98	.73
		.97	.97	.76	.55				.97	.97	.97	.55
8	07-08	1.00	1.00	.77	.31		9	18-23	1.00	1.00	1.00	.31
		.99	.99	.73	.29				.99	.99	.99	.29
		.98	.98	.66	.24				.98	.98	.98	.24
		.97	.97	.47	.16				.97	.97	.97	.16
8	09-10	1.00	1.00	.77	.08		10	00-09	1.00	1.00	1.00	.08
		.99	.99	.73	.08				.99	.99	.99	.08
		.98	.98	.66	.06				.98	.98	.98	.06
		.97	.97	.47	.03				.97	.97	.97	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
8	11-12	1.00	1.00	1.00	.08	90°	10	10-12	1.00	1.00	1.00	.31
		.99	.99	.99	.08	50°			.99	.99	.99	.29
		.98	.98	.98	.06	30°			.98	.98	.98	.24
		.97	.97	.97	.03	10°			.97	.97	.97	.16
8	13	1.00	1.00	1.00	.77		10	13	1.00	1.00	1.00	.08
		.99	.99	.99	.73				.99	.99	.99	.08
		.98	.98	.98	.66				.98	.98	.98	.06
		.97	.97	.97	.47				.97	.97	.97	.03
8	14-17	1.00	1.00	1.00	.97		10	14	1.00	1.00	.08	.08
		.99	.99	.99	.96				.99	.99	.08	.08
		.98	.98	.98	.93				.98	.98	.06	.06
		.97	.97	.97	.86				.97	.97	.03	.03
8	18-23	1.00	1.00	1.00	1.00		10	15	1.00	1.00	1.00	.08
		.99	.99	.99	.99				.99	.99	.99	.08
		.98	.98	.98	.98				.98	.98	.98	.06
		.97	.97	.97	.97				.97	.97	.97	.03
9	00-02	1.00	1.00	1.00	.92		10	16-18	1.00	1.00	1.00	.48
		.99	.99	.99	.90				.99	.99	.99	.45
		.98	.98	.98	.86				.98	.98	.98	.38
		.97	.97	.97	.76				.97	.97	.97	.24
9	03-05	1.00	1.00	1.00	.77		10	19-23	1.00	1.00	1.00	.08
		.99	.99	.99	.73				.99	.99	.99	.08
		.98	.98	.98	.66				.98	.98	.98	.06
		.97	.97	.97	.47				.97	.97	.97	.03
9	06-18	1.00	1.00	1.00	.87		11	00-10	1.00	1.00	1.00	.08
		.99	.99	.99	.85				.99	.99	.99	.08
		.98	.98	.98	.80				.98	.98	.98	.06
		.97	.97	.97	.65				.97	.97	.97	.03
9	19-23	1.00	1.00	1.00	.08		11	11-12	1.00	1.00	1.00	.62
		.99	.99	.99	.08				.99	.99	.99	.58
		.98	.98	.98	.06				.98	.98	.98	.50
		.97	.97	.97	.03				.97	.97	.97	.32
10	00-07	1.00	1.00	1.00	.08		11	13-16	1.00	1.00	.48	.08
		.99	.99	.99	.08				.99	.99	.45	.08
		.98	.98	.98	.06				.98	.98	.38	.06
		.97	.97	.97	.03				.97	.97	.24	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
10	08-09	1.00	1.00	.08	.08	90°	11	13-16	1.00	1.00	.48	.08
		.99	.99	.08	.08	50°			.99	.99	.45	.08
		.98	.98	.06	.06	30°			.98	.98	.38	.06
		.97	.97	.03	.03	10°			.97	.97	.24	.03
10	10	1.00	1.00	.62	.31		11	17-20	1.00	1.00	1.00	.31
		.99	.99	.58	.29				.99	.99	.99	.29
		.98	.98	.50	.24				.98	.98	.98	.24
		.97	.97	.32	.16				.97	.97	.97	.16
10	11-13	1.00	1.00	.92	.81		11	21-23	1.00	1.00	1.00	.08
		.99	.99	.90	.78				.99	.99	.99	.08
		.98	.98	.86	.73				.98	.98	.98	.06
		.97	.97	.76	.55				.97	.97	.97	.03
10	14-15	1.00	.08	.08	.08		12	00-05	1.00	1.00	.92	.08
		.99	.08	.08	.08				.99	.99	.90	.08
		.98	.06	.06	.06				.98	.98	.86	.06
		.97	.03	.03	.03				.97	.97	.76	.03
10	16	.08	.08	.08	.08		12	06-23	1.00	1.00	1.00	.08
		.08	.08	.08	.08				.99	.99	.99	.08
		.06	.06	.06	.06				.98	.98	.98	.06
		.03	.03	.03	.03				.97	.97	.97	.03
10	17-21	1.00	1.00	.92	.70		13	00-5	1.00	1.00	.08	.08
		.99	.99	.90	.64				.99	.99	.08	.08
		.98	.98	.86	.57				.98	.98	.06	.06
		.97	.97	.76	.39				.97	.97	.03	.03
10	22-23	1.00	1.00	1.00	.48		13	06-07	1.00	.08	.08	.08
		.99	.99	.99	.45				.99	.08	.08	.08
		.98	.98	.98	.38				.98	.06	.06	.06
		.97	.97	.97	.24				.97	.03	.03	.03
11	00-02	1.00	1.00	1.00	.08		13	08-14	1.00	1.00	.08	.08
		.99	.99	.99	.08				.99	.99	.08	.08
		.98	.98	.98	.06				.98	.98	.06	.06
		.97	.97	.97	.03				.97	.97	.03	.03
11	03-11	1.00	1.00	1.00	.31		13	15-18	1.00	1.00	1.00	.08
		.99	.99	.99	.29				.99	.99	.99	.08
		.98	.98	.98	.24				.98	.98	.98	.06
		.97	.97	.97	.16				.97	.97	.97	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
11	12-13	1.00	1.00	1.00	.81	90°	13	15-18	1.00	1.00	1.00	.08
		.99	.99	.99	.78	50°			.99	.99	.99	.08
		.98	.98	.98	.73	30°			.98	.98	.98	.06
		.97	.97	.97	.55	10°			.97	.97	.97	.03
11	14-14	1.00	1.00	.92	.70		13	19-20	1.00	1.00	1.00	.87
		.99	.99	.90	.64				.99	.99	.99	.85
		.98	.98	.86	.57				.98	.98	.98	.80
		.97	.97	.76	.39				.97	.97	.97	.65
11	18-23	1.00	1.00	1.00	.08		13	21-23	1.00	1.00	.31	.31
		.99	.99	.99	.08				.99	.99	.29	.29
		.98	.98	.98	.06				.98	.98	.24	.24
		.97	.97	.97	.03				.97	.97	.16	.16
12	00-01	1.00	1.00	1.00	.08		14	00-05	1.00	1.00	.08	.08
		.99	.99	.99	.08				.99	.99	.08	.08
		.98	.98	.98	.06				.98	.98	.06	.06
		.97	.97	.97	.03				.97	.97	.03	.03
12	02-04	1.00	1.00	1.00	.48		14	06-07	1.00	1.00	1.00	.08
		.99	.99	.99	.45				.99	.99	.99	.08
		.98	.98	.98	.38				.98	.98	.98	.06
		.97	.97	.97	.24				.97	.97	.97	.03
12	05-06	1.00	1.00	.77	.08		14	08-21	1.00	1.00	1.00	.87
		.99	.99	.73	.08				.99	.99	.99	.85
		.98	.98	.66	.06				.98	.98	.98	.80
		.97	.97	.47	.03				.97	.97	.97	.65
12	07-08	1.00	1.00	.87	.08		14	22-23	1.00	1.00	1.00	.77
		.99	.99	.85	.08				.99	.99	.99	.73
		.98	.98	.80	.06				.98	.98	.98	.66
		.97	.97	.65	.03				.97	.97	.97	.47
12	09	1.00	1.00	.08	.08		15	00-07	1.00	1.00	1.00	.08
		.99	.99	.08	.08				.99	.99	.99	.08
		.98	.98	.06	.06				.98	.08	.98	.06
		.97	.97	.03	.03				.97	.97	.97	.03
12	10-14	1.00	1.00	1.00	.08		15	08-11	1.00	1.00	.87	.08
		.99	.99	.99	.08				.99	.99	.85	.08
		.98	.98	.98	.06				.98	.98	.80	.06
		.97	.97	.97	.03				.97	.97	.65	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
12	15-17	1.00	1.00	.08	.08	90°
		.99	.99	.08	.08	50°
		.98	.98	.06	.06	30°
		.97	.97	.03	.03	10°
12	18	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
12	19-22	1.00	1.00	.81	.08	
		.99	.99	.78	.08	
		.98	.98	.73	.06	
		.97	.97	.55	.03	
12	23	1.00	1.00	.62	.08	
		.99	.99	.58	.08	
		.98	.98	.50	.06	
		.97	.97	.32	.03	
13	00-04	1.00	1.00	.48	.31	
		.99	.99	.45	.29	
		.98	.98	.38	.24	
		.97	.97	.24	.16	
13	05-12	1.00	.08	.08	.08	
		.99	.08	.08	.08	
		.98	.06	.06	.06	
		.97	.03	.03	.03	
13	13-16	1.00	1.00	.62	.62	
		.99	.99	.58	.58	
		.98	.98	.50	.50	
		.97	.97	.32	.32	
13	17-23	1.00	1.00	1.00	.87	
		.99	.99	.99	.85	
		.98	.98	.98	.80	
		.97	.97	.97	.65	
14	00-01	1.00	1.00	1.00	.70	
		.99	.99	.99	.64	
		.98	.98	.98	.57	
		.97	.97	.97	.39	

RIVER VALLEY

DAY	HOUR(S)	A	B	C	D
15	12-14	1.00	.48	.48	.08
		.99	.45	.45	.08
		.98	.38	.38	.06
		.97	.24	.24	.03
15	15-23	1.00	1.00	.08	.08
		.99	.99	.08	.08
		.98	.98	.06	.06
		.97	.97	.03	.03
16	00-01	1.00	1.00	.08	.08
		.99	.99	.08	.08
		.98	.98	.06	.06
		.97	.97	.03	.03
16	02-03	1.00	.08	.08	.08
		.99	.08	.08	.08
		.98	.06	.06	.06
		.97	.03	.03	.03
14	04-11	1.00	1.00	.08	.08
		.99	.99	.08	.08
		.98	.98	.06	.06
		.97	.97	.03	.03
16	12	1.00	1.00	.62	.08
		.99	.99	.58	.08
		.98	.98	.50	.06
		.97	.97	.32	.03
16	13-14	1.00	1.00	1.00	.08
		.99	.99	.99	.08
		.98	.98	.98	.06
		.97	.97	.97	.03
16	15-18	1.00	1.00	1.00	.77
		.99	.99	.99	.73
		.98	.98	.98	.66
		.97	.97	.97	.47
16	19-21	1.00	1.00	.70	.62
		.99	.99	.64	.58
		.98	.98	.57	.50
		.97	.97	.39	.32

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
14	02-07	1.00	1.00	.08	.08	90°	16	22-23	1.00	1.00	.08	.08
		.99	.99	.08	.08	50°			.99	.99	.08	.08
		.98	.98	.06	.06	30°			.98	.98	.06	.06
		.97	.97	.03	.03	10°			.97	.97	.03	.03
14	08	1.00	1.00	1.00	.48		17	00-01	1.00	1.00	.08	.08
		.99	.99	.99	.45				.99	.99	.08	.08
		.98	.98	.98	.38				.98	.98	.06	.06
		.97	.97	.97	.24				.97	.97	.03	.03
14	09-23	1.00	1.00	1.00	.81		17	02-05	1.00	.77	.08	.08
		.99	.99	.99	.78				.99	.73	.08	.08
		.98	.98	.98	.73				.98	.66	.06	.06
		.97	.97	.97	.55				.97	.47	.03	.03
15	00-03	1.00	1.00	1.00	.08		17	06-11	1.00	.08	.08	.08
		.99	.99	.99	.08				.99	.08	.08	.08
		.98	.98	.98	.06				.98	.06	.06	.06
		.97	.97	.97	.03				.97	.03	.03	.03
15	04-05	1.00	1.00	.70	.08		17	12-20	1.00	.81	.08	.08
		.99	.99	.64	.08				.99	.78	.08	.08
		.98	.98	.57	.06				.98	.73	.06	.06
		.97	.97	.39	.03				.97	.55	.03	.03
15	05-11	1.00	1.00	.81	.08		17	21-23	1.00	1.00	.70	.08
		.99	.99	.78	.08				.99	.99	.64	.08
		.98	.98	.73	.06				.98	.98	.57	.06
		.97	.97	.55	.03				.97	.97	.39	.03
15	12-14	1.00	1.00	.87	.08		18	00-02	1.00	.87	.08	.08
		.99	.99	.85	.08				.99	.85	.08	.08
		.98	.98	.80	.06				.98	.80	.06	.06
		.97	.97	.65	.03				.97	.65	.03	.03
15	15-18	1.00	.08	.08	.08		18	03-05	1.00	.70	.08	.08
		.99	.08	.08	.08				.99	.64	.08	.08
		.98	.06	.06	.06				.98	.57	.06	.06
		.97	.03	.03	.03				.97	.39	.03	.03
15	19-20	1.00	.48	.48	.08		18	06-09	1.00	1.00	.77	.08
		.99	.45	.45	.08				.99	.99	.73	.08
		.98	.38	.38	.06				.98	.98	.66	.06
		.97	.24	.24	.06				.97	.97	.47	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
15	21-23	1.00	1.00	.08	.08	90°	18	10-11	1.00	1.00	1.00	.08
		.99	.99	.08	.08	50°			.99	.99	.99	.08
		.98	.98	.06	.06	30°			.98	.98	.98	.06
		.97	.97	.03	.03	10°			.97	.97	.97	.03
16	00-01	1.00	1.00	.08	.08		18	12-19	1.00	1.00	1.00	.62
		.99	.99	.08	.08				.99	.99	.99	.58
		.98	.98	.06	.06				.98	.98	.98	.50
		.97	.97	.03	.03				.97	.97	.97	.32
16	02-08	1.00	.08	.08	.08		18	20-21	1.00	1.00	1.00	.81
		.99	.08	.08	.08				.99	.99	.99	.78
		.98	.06	.06	.06				.98	.98	.98	.73
		.97	.03	.03	.03				.97	.97	.97	.55
16	09-10	1.00	1.00	.97	.08		18	22-23	1.00	1.00	1.00	.70
		.99	.99	.96	.08				.99	.99	.99	.64
		.98	.98	.93	.06				.98	.98	.98	.57
		.97	.97	.86	.03				.97	.97	.97	.39
16	11-14	1.00	1.00	.70	.08		19	00	1.00	1.00	1.00	.77
		.99	.99	.64	.08				.99	.99	.99	.73
		.98	.98	.57	.06				.98	.98	.98	.66
		.97	.97	.39	.03				.97	.97	.97	.47
16	15-19	1.00	1.00	.92	.77		19	01-02	1.00	1.00	1.00	.87
		.99	.99	.90	.73				.99	.99	.99	.85
		.98	.98	.86	.66				.98	.98	.98	.80
		.97	.97	.76	.47				.97	.97	.97	.65
16	20-21	1.00	1.00	1.00	.08		19	03-05	1.00	1.00	1.00	.48
		.99	.99	.99	.08				.99	.99	.99	.45
		.98	.98	.98	.06				.98	.98	.98	.38
		.97	.97	.97	.03				.97	.97	.97	.24
16	22-23	1.00	1.00	1.00	.08		19	06-11	1.00	1.00	1.00	.08
		.99	.99	.99	.08				.99	.99	.99	.08
		.98	.98	.98	.06				.98	.98	.98	.06
		.97	.97	.97	.03				.97	.97	.97	.03
17	00-01	1.00	.87	.87	.08		19	12	1.00	1.00	1.00	.08
		.99	.85	.85	.08				.99	.99	.99	.08
		.98	.80	.80	.06				.98	.98	.96	.06
		.97	.65	.65	.03				.97	.97	.97	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
17	02-06	1.00	.62	.62	.08	90°	19	13-16	1.00	.92	.92	.08
		.99	.58	.58	.08	50°			.99	.90	.90	.08
		.98	.50	.50	.06	30°			.98	.86	.86	.06
		.97	.32	.32	.03	10°			.97	.76	.76	.03
17	07-10	1.00	.08	.08	.08		19	17-18	.87	.31	.08	.08
		.99	.08	.08	.08				.85	.29	.08	.08
		.98	.06	.06	.06				.80	.24	.06	.06
		.97	.03	.03	.03				.65	.16	.03	.03
17	11-12	1.00	1.00	.08	.08		19	19-23	.62	.08	.08	.08
		.99	.99	.08	.08				.58	.08	.08	.08
		.98	.98	.06	.06				.50	.06	.06	.06
		.97	.97	.03	.03				.32	.03	.03	.03
17	13-14	1.00	1.00	.77	.48		20	00-03	.08	.08	.08	.08
		.99	.99	.73	.45				.08	.08	.08	.08
		.98	.98	.66	.38				.06	.06	.06	.06
		.97	.97	.47	.24				.03	.03	.03	.03
17	15-17	1.00	1.00	.97	.81		20	04-05	.48	.08	.08	.08
		.99	.99	.96	.78				.45	.08	.08	.08
		.98	.98	.93	.73				.38	.06	.06	.06
		.97	.97	.86	.55				.24	.03	.03	.03
17	18-20	1.00	1.00	.87	.08		20	06-11	1.00	.08	.08	.08
		.99	.99	.85	.08				.99	.08	.08	.08
		.98	.98	.80	.06				.98	.06	.06	.06
		.97	.97	.65	.03				.97	.03	.03	.03
17	21-23	1.00	1.00	.70	.08		20	12-13	1.00	1.00	.08	.08
		.99	.99	.64	.08				.99	.99	.08	.08
		.98	.98	.57	.06				.98	.98	.06	.06
		.97	.97	.39	.03				.97	.97	.03	.03
18	00-04	1.00	1.00	.77	.08		20	14-17	1.00	1.00	.97	.08
		.99	.99	.73	.08				.99	.99	.96	.08
		.98	.98	.66	.06				.98	.98	.93	.06
		.97	.97	.47	.03				.97	.97	.86	.03
18	05-07	1.00	1.00	.08	.08		20	18-19	1.00	1.00	1.00	.08
		.99	.99	.08	.08				.99	.99	.99	.08
		.98	.98	.06	.06				.98	.98	.98	.06
		.97	.97	.03	.03				.97	.97	.97	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
18	08-10	1.00	1.00	.62	.62	90°	20	20-23	1.00	1.00	1.00	.81
		.99	.99	.58	.58	50°			.99	.99	.99	.78
		.98	.98	.50	.50	30°			.98	.98	.98	.73
		.97	.97	.32	.32	10°			.97	.97	.97	.55
18	11-17	1.00	1.00	1.00	.87		21	00-03	1.00	1.00	1.00	.87
		.99	.99	.99	.85				.99	.99	.99	.85
		.98	.98	.98	.80				.98	.98	.98	.80
		.97	.97	.97	.65				.97	.97	.97	.65
18	18-20	1.00	1.00	1.00	1.00		21	04-07	1.00	1.00	.81	.81
		.99	.99	.99	.99				.99	.99	.78	.78
		.98	.98	.98	.98				.98	.98	.73	.73
		.97	.97	.97	.97				.97	.97	.55	.55
18	21-23	1.00	1.00	1.00	.92		21	08	1.00	1.00	1.00	.70
		.99	.99	.99	.90				.99	.99	.99	.64
		.98	.98	.98	.86				.98	.98	.98	.57
		.97	.97	.97	.76				.97	.97	.97	.39
19	00-04	1.00	1.00	1.00	.92		21	09-17	1.00	1.00	1.00	.92
		.99	.99	.99	.90				.99	.99	.99	.90
		.98	.98	.98	.86				.98	.98	.98	.86
		.97	.97	.97	.76				.97	.97	.97	.76
19	05-11	1.00	1.00	1.00	.81		21	18-23	1.00	1.00	1.00	1.00
		.99	.99	.99	.78				.99	.99	.99	.99
		.98	.98	.98	.73				.98	.98	.98	.98
		.97	.97	.97	.55				.97	.97	.97	.97
19	12	1.00	1.00	1.00	.31		22	00-02	1.00	1.00	1.00	1.00
		.99	.99	.99	.29				.99	.99	.99	.99
		.98	.98	.98	.24				.98	.98	.98	.98
		.97	.97	.97	.16				.97	.97	.97	.97
19	13-19	1.00	.87	.08	.08		22	03-04	1.00	.87	.87	.87
		.99	.85	.08	.08				.99	.85	.85	.85
		.98	.80	.06	.06				.98	.80	.80	.80
		.97	.65	.03	.03				.97	.65	.65	.65
19	20-23	.92	.31	.08	.08		22	05	1.00	.77	.77	.77
		.90	.29	.08	.08				.99	.73	.73	.73
		.86	.24	.06	.06				.98	.66	.66	.66
		.76	.16	.03	.03				.97	.47	.47	.47

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
20	00-02	1.00	.31	.31	.31	90°	22	06-07	.08	.08	.08	.08
		.99	.29	.29	.29	50°			.08	.08	.08	.08
		.98	.24	.24	.24	30°			.06	.06	.06	.06
		.97	.16	.16	.16	10°			.03	.03	.03	.03
20	03-05	.08	.08	.08	.08		22	08	1.00	.08	.08	.08
		.08	.08	.08	.08				.99	.08	.08	.08
		.06	.06	.06	.06				.98	.06	.06	.06
		.03	.03	.03	.03				.97	.03	.03	.03
20	06-08	.48	.08	.08	.08		22	09	1.00	.70	.70	.70
		.45	.08	.08	.08				.99	.64	.64	.64
		.38	.06	.06	.06				.98	.57	.57	.57
		.24	.03	.03	.03				.97	.39	.39	.39
20	09-10	.31	.31	.08	.08		22	10	1.00	1.00	.92	.92
		.29	.29	.98	.08				.99	.99	.90	.90
		.24	.24	.06	.06				.98	.98	.86	.86
		.16	.16	.03	.03				.97	.97	.76	.76
20	11-12	.62	.62	.62	.08		22	11-23	1.00	1.00	1.00	1.00
		.58	.58	.58	.08				.99	.99	.99	.99
		.50	.50	.50	.06				.98	.98	.98	.98
		.32	.32	.32	.03				.97	.97	.97	.97
20	13-14	1.00	.87	.87	.08		23	00-05	1.00	1.00	1.00	1.00
		.99	.85	.85	.08				.99	.99	.99	.99
		.98	.80	.80	.06				.98	.98	.98	.98
		.97	.65	.65	.03				.97	.97	.97	.97
20	15-16	1.00	1.00	.97	.62		23	06-07	1.00	.77	.77	.77
		.99	.99	.96	.58				.99	.73	.73	.73
		.98	.98	.93	.50				.98	.66	.66	.66
		.97	.97	.86	.32				.97	.47	.47	.47
20	17-23	1.00	1.00	1.00	.08		23	08-09	1.00	.08	.08	.08
		.99	.99	.99	.08				.99	.08	.08	.08
		.98	.98	.98	.06				.98	.06	.06	.06
		.97	.97	.97	.03				.97	.03	.03	.03
21	00-08	1.00	1.00	1.00	.92		23	10-23	1.00	1.00	.08	.08
		.99	.99	.99	.90				.99	.99	.08	.08
		.98	.98	.98	.86				.98	.98	.06	.06
		.97	.97	.97	.76				.97	.97	.03	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
21	09-13	1.00	1.00	1.00	.87	90°	24	00	1.00	1.00	1.00	.62
		.99	.99	.99	.85	50°			.99	.99	.99	.58
		.98	.98	.98	.80	30°			.98	.98	.98	.50
		.97	.97	.97	.65	10°			.97	.97	.97	.32
21	14-17	1.00	1.00	1.00	.97		24	01-11	1.00	1.00	1.00	.81
		.99	.99	.99	.96				.99	.99	.99	.78
		.98	.98	.98	.93				.98	.98	.98	.73
		.97	.97	.97	.86				.97	.97	.97	.55
21	18-23	1.00	1.00	1.00	1.00		24	12-23	1.00	1.00	1.00	.87
		.99	.99	.99	.99				.99	.99	.99	.85
		.98	.98	.98	.98				.98	.98	.98	.80
		.97	.97	.97	.97				.97	.97	.97	.65
22	00-05	1.00	1.00	1.00	1.00		25	00-01	1.00	1.00	1.00	.77
		.99	.99	.99	.99				.99	.99	.99	.73
		.98	.98	.98	.98				.98	.98	.98	.66
		.97	.97	.97	.97				.97	.97	.97	.47
22	06-10	1.00	1.00	.92	.92		25	02-03	1.00	1.00	.70	.08
		.99	.99	.90	.90				.99	.99	.64	.08
		.98	.98	.86	.86				.98	.98	.57	.06
		.97	.97	.76	.76				.97	.97	.39	.03
22	11-23	1.00	1.00	1.00	1.00		25	04-05	1.00	1.00	.08	.08
		.99	.99	.99	.99				.99	.99	.08	.08
		.98	.98	.98	.98				.98	.98	.06	.06
		.97	.97	.97	.97				.97	.97	.03	.03
23	00-09	1.00	1.00	1.00	1.00		25	06-07	1.00	1.00	.48	.48
		.99	.99	.99	.99				.99	.99	.45	.45
		.98	.98	.98	.98				.98	.98	.38	.38
		.97	.97	.97	.97				.97	.97	.24	.24
23	10-12	1.00	1.00	.92	.92		25	08	1.00	.08	.08	.08
		.99	.99	.90	.90				.99	.08	.08	.08
		.98	.98	.86	.86				.98	.06	.06	.06
		.97	.97	.76	.76				.97	.03	.03	.03
23	13-15	1.00	1.00	.62	.62		25	09-13	1.00	1.00	.08	.08
		.99	.99	.58	.58				.99	.99	.08	.08
		.98	.98	.50	.50				.98	.98	.06	.06
		.97	.97	.32	.32				.97	.97	.03	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
23	16-18	1.00	1.00	.08	.08	90°	25	14-15	1.00	1.00	1.00	.08
		.99	.99	.08	.08	50°			.99	.99	.99	.08
		.98	.98	.06	.06	30°			.98	.98	.98	.06
		.97	.97	.03	.03	10°			.97	.97	.97	.03
23	19-20	1.00	1.00	.48	.48		25	16-23	1.00	1.00	.08	.08
		.99	.99	.45	.45				.99	.99	.08	.08
		.98	.98	.38	.38				.98	.98	.06	.06
		.97	.97	.24	.24				.97	.97	.03	.03
23	21-23	1.00	1.00	1.00	.87		26	00-05	1.00	1.00	.08	.08
		.99	.99	.99	.85				99	.99	.08	.08
		.98	.98	.98	.80				.98	.98	.06	.06
		.97	.97	.97	.65				.97	.97	.03	.03
24	00-03	1.00	1.00	1.00	.92		26	06-14	1.00	.08	.08	.08
		.99	.99	.99	.90				.99	.08	.08	.08
		.98	.98	.98	.86				.98	.06	.06	.06
		.97	.97	.97	.76				.97	.03	.03	.03
24	04-13	1.00	1.00	1.00	1.00		26	15-17	1.00	1.00	.08	.08
		.99	.99	.99	.99				.99	.99	.08	.08
		.98	.98	.98	.98				.98	.98	.06	.06
		.97	.97	.97	.97				.97	.97	.03	.03
24	14-23	1.00	1.00	1.00	.92		26	18	.92	.08	.08	.08
		.99	.99	.99	.90				.90	.08	.08	.08
		.98	.98	.98	.86				.86	.06	.06	.06
		.97	.97	.97	.76				.76	.03	.03	.03
25	00-01	1.00	1.00	1.00	.31		26	19-22	.77	.31	.31	.31
		.99	.99	.99	.29				.73	.29	.29	.29
		.98	.98	.98	.24				.66	.24	.24	.24
		.97	.97	.97	.16				.47	.16	.16	.16
25	02-03	1.00	1.00	.08	.08		26	23	.08	.08	.08	.08
		.99	.99	.08	.08				.08	.08	.08	.08
		.98	.98	.06	.06				.06	.06	.06	.06
		.97	.97	.03	.03				.03	.03	.03	.03
25	04-10	1.00	.08	.08	.08		27	00-05	.08	.08	.08	.08
		.99	.08	.08	.08				.08	.08	.08	.08
		.98	.06	.06	.06				.06	.06	.06	.03
		.97	.03	.03	.03				.03	.03	.03	.03

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN							RIVER VALLEY					
DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
25	11-13	1.00	.08	.08	.08	90°	27	06-14	.08	.08	.08	.08
		.99	.08	.08	.08	50°			.08	.08	.08	.08
		.98	.06	.06	.06	30°			.06	.06	.06	.06
		.97	.03	.03	.03	10°			.03	.03	.03	.03
25	14-16	1.00	.62	.08	.08		27	15-19	.08	.08	.08	.08
		.99	.58	.08	.08				.08	.08	.08	.08
		.98	.50	.06	.06				.06	.06	.06	.06
		.97	.32	.03	.03				.03	.03	.03	.03
25	17	1.00	1.00	.62	.08		27	20-23	1.00	.48	.08	.08
		.99	.99	.58	.08				.99	.45	.08	.08
		.98	.98	.50	.06				.98	.38	.06	.06
		.97	.97	.32	.03				.97	.24	.03	.03
25	18-20	1.00	1.00	.81	.08		28	00-01	1.00	.77	.77	.08
		.99	.99	.78	.08				.99	.73	.73	.08
		.98	.98	.73	.06				.98	.66	.66	.06
		.97	.97	.55	.03				.97	.47	.47	.03
25	21-23	1.00	1.00	1.00	.08		28	02-05	1.00	.81	.81	.08
		.99	.99	.99	.08				.99	.78	.78	.08
		.98	.98	.98	.06				.98	.73	.73	.06
		.97	.97	.97	.03				.97	.55	.55	.03
26	00-03	1.00	1.00	1.00	.08		28	06-23	1.00	1.00	.08	.08
		.99	.99	.99	.08				.99	.99	.08	.08
		.98	.98	.98	.06				.98	.98	.06	.06
		.97	.97	.97	.03				.97	.97	.03	.03
26	04-05	1.00	.81	.08	.08							
		.99	.78	.08	.08							
		.98	.73	.06	.06							
		.97	.55	.03	.03							
26	06-08	1.00	.48	.08	.08							
		.99	.45	.08	.08							
		.98	.38	.06	.06							
		.97	.24	.03	.03							
26	09-14	1.00	.08	.08	.08							
		.99	.08	.08	.08							
		.98	.06	.06	.06							
		.97	.03	.03	.03							

WESTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

FEBRUARY

HILLY TERRAIN

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
26	15-23	1.00	.08	.08	.08	90°
		.99	.08	.08	.08	50°
		.98	.06	.06	.06	30°
		.97	.03	.03	.03	10°
27	00-02		.08	.08	.08	
			.08	.08	.08	
			.06	.06	.06	
			.03	.03	.03	
27	03-08	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
27	09-12	.62	.62	.62	.08	
		.58	.58	.58	.08	
		.50	.50	.50	.06	
		.32	.32	.32	.03	
27	13-21	1.00	.62	.62	.08	
		.99	.58	.58	.08	
		.98	.50	.50	.06	
		.97	.32	.32	.03	
27	22-23	1.00	.87	.87	.48	
		.99	.85	.85	.45	
		.98	.80	.80	.38	
		.97	.65	.65	.24	
28	00-05	1.00	.92	.92	.81	
		.99	.90	.90	.78	
		.98	.86	.86	.73	
		.97	.76	.76	.55	
28	06-09	1.00	.92	.81	.81	
		.99	.90	.78	.78	
		.98	.86	.73	.73	
		.97	.76	.55	.55	
28	10-13	1.00	1.00	.62	.62	
		.99	.99	.58	.58	
		.98	.98	.50	.50	
		.97	.97	.32	.32	

DAY	HOUR(S)	A	B	C	D
28	14-22	1.00	1.00	.87	.8
		.99	.99	.85	.85
		.98	.98	.80	.80
		.97	.97	.65	.65
28	23	1.00	1.00	1.00	.70
		.99	.99	.99	.64
		.98	.98	.98	.57
		.97	.97	.97	.39

February - Eastern Half of the FOFEBA (Hilly Terrain)

DAY	HOUR(S)	PASQUILL CAT
1	00-12	F-C
	13-21	D-E
	22-23	D
2	00-02	D
	03-04	D
	05-06	D
	07-08	D
	09-19	D
	20-23	D
3	00-05	D
	06	D
	17-13	D
	14-23	D
4	00-01	D
	02-05	D
	06-10	D
	11-12	D
	13-15	D
	16-19	D
	20-23	F
5	00-08	F
	09-11	C
	12-14	B
	15-19	C-F
	20-23	F
6	00-06	F
	07-09	C
	10-11	B
	12-17	C
	18-23	F
7	00-02	F
	03-06	E
	07-16	D
	17-19	D
	20-23	D
8	00-02	D
	03-04	D
	05-06	D
	07-08	D
	09-10	D
	11-12	D
	13-17	D
	18-23	D
9	00-10	D
	11-14	D
	15-17	D
	18-23	D
10	00-03	D
	04-05	D
	06-11	D
	12-14	D
	15-17	D
	18-21	D
	22-23	D
11	00-03	D
	04-08	D
	09-12	C
	13-20	D
	21-22	D
	23	D
12	00-03	D
	04-08	D
	09-10	D
	11-14	D
	15-16	D
	17-19	D
	20-23	D
13	00-06	D
	07-11	D
	12-13	D
	14-21	D
	22-23	E

February - Eastern Half of the FOFEBA (Hilly Terrain)

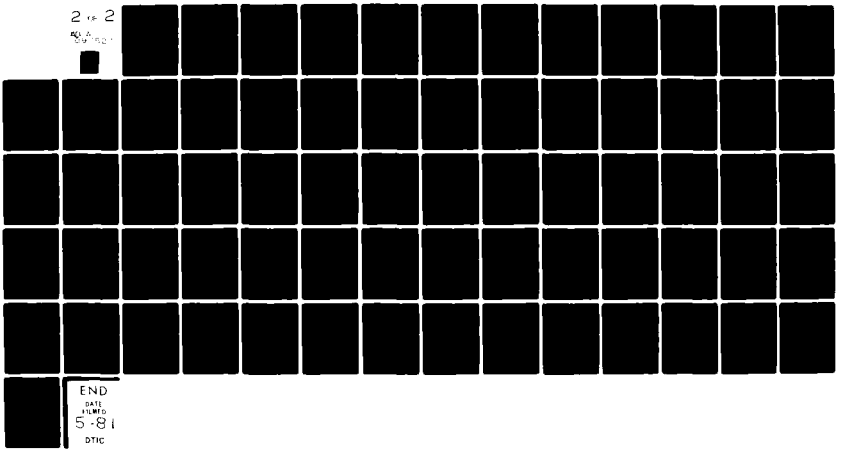
DAY	HOUR(S)	PASQUILL CAT
14	00-02	D
	03-06	D
	07	D
	08-11	D
	12-17	C
	18-23	E
15	00-01	E
	02-07	D
	08-10	D
	11-15	D
	16	D
	17-20	D
	21-22	D
	23	D
16	00-12	D
	13-15	D
	16-20	D
	21-23	D
17	00-02	D
	03-06	D
	07-09	D
	10-11	D
	12-16	D
	17-23	D
18	00-02	D
	03-04	D
	05-06	F
	07-08	F
	09-13	D
	14-15	D
	16-19	D
	20-23	F
19	00-01	F
	02-03	E
	04-05	D
	06	D
	07-13	D
	14-15	D
	16-18	D
	19-23	D
20	00-10	D
	11-14	D
	15-16	D
	17-21	D
	22-23	D
21	00-06	E
	07-09	E
	10-13	D
	14-16	C
	17-20	E
	21-23	F
22	00-03	F
	04-05	F
	06-09	F
	10-11	B
	12-14	C
	15-19	D
	20-21	F
	22-23	F
23	00-01	D
	02	D
	03-10	D
	11	D
	12	D
	13-23	D
24	00-05	D
	06-10	D
	11-12	D
	13-14	D
	15-19	D
	20-23	D
25	00-01	D
	02-03	D
	04-07	D
	08-12	D
	13-15	D
	16-17	D
	18-23	D

February - Eastern Half of the FOFEBA (Hilly Terrain)

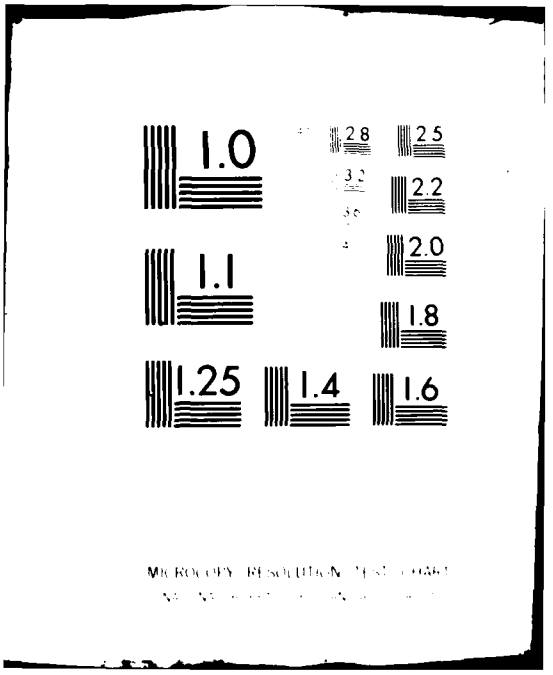
DAY	HOUR(S)	PASQUILL CAT
26	00-04	D
	05-10	D
	11-12	D
	13-14	D
	15-17	D
	18-23	D
27	00-09	D
	10-23	D
28	00-03	D
	04-05	D
	06-12	D
	13-15	D
	16-23	D

AD-A097 527 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
WEATHER SCENARIOS FOR CENTRAL GERMANY.(U)
FEB 81 B T MIERS
UNCLASSIFIED ERADCOM/ASL-TR-0078 NL

2 OF 2



END
DATE FILMED
5-81
DTIC


1.0
2.8
2.5
3.2
2.2
2.0
1.1
1.8
1.25
1.4
1.6

February - Eastern Half of the FOFEBA (River Valleys)

DAY	HOUR(S)	PASQUILL CAT
1	00-06	D
	07-11	D
	11-23	D
2	00-03	D
	04-08	D
	09-12	D
	13-15	D
	16-18	D
	19-20	D
	21-23	D
3	00-08	D
	09-13	D
	14-18	D
	19-23	D
4	00-03	D
	04-06	D
	07-11	D
	12-15	D
	16-23	D
5	00-07	F
	08-11	C
	12-23	B-C-F
6	00-07	F
	08	F
	09-10	C
	11-12	C
	13-15	C
	16-18	D
	19-23	F
7	00-03	F
	04-07	D
	08	D
	09-12	D
	13-17	D
	18-20	D
	21-23	D
8	00-02	D
	03-04	F
	05-08	D
	09-11	C
	12-16	C
	17-19	F
	20-23	F
9	00-09	D
	10-12	D
	13-19	D
	20-23	D
10	00-03	D
	04-06	D
	07-14	D
	15-17	D
	18-23	D
11	00-05	D
	06-11	D
	12-14	B
	15-18	C
	19-20	E
	21-23	E
12	00-02	D
	03-14	D
	15-17	D
	18-19	D
	20-21	D
	22-23	D
13	00-16	D
	17	D
	18-19	D
	20-21	D
	22-23	D

February - Eastern Half of the FOFEBA (River Valleys)

DAY	HOUR(S)	PASQUILL CAT
14	00-02	D
	03-04	D
	05-06	D
	07-09	D
	10-13	C
	14-19	C
	20-21	D
	22-23	D
15	00-01	D
	02	D
	03-04	D
	05	D
	06-09	D
	10-14	D
	15-17	D
	18-22	D
	23	D
16	00	D
	01-05	D
	06-10	D
	11-14	D
	15-22	D
	23	E
17	00-02	F
	03-04	F
	05-08	D
	09-11	C
	12-14	C
	15-17	D
	18-22	F
	23	D
18	00-01	D
	02-07	E
	08-09	D
	10-12	C
	13-17	C
	18-20	C-E
	21-23	F
19	00-02	F
	03-06	F
	07-08	F
	09-10	D
	11-12	D
	13-16	D
	17-20	D
	21-23	D
20	00-08	D
	09-10	D
	11-12	C
	13	D
	14-19	D
	20-21	D
	22-23	D
21	00-06	D
	07-09	D
	10-17	C
	18-23	F
22	00-08	F
	09-19	C-B-F
	20-23	F
23	00-02	D
	03	D
	04-13	D
	14	D
	15-16	D
	17-19	D
	20-23	D
24	00-04	D
	05-10	D
	11-17	D
	18-23	D

February - Eastern Half of the FOFEBA (River Valleys)

DAY	HOUR(S)	PASQUILL CAT
25	00	D
	01-04	D
	05-10	D
	11-18	D
	19-21	D
	22-23	D
26	00-11	D
	12-17	D
	18-23	D
27	00-17	D
	18	D
	19-23	D
28	00-04	D
	05-06	D
	07-10	D
	11	D
	12-21	D
	22-23	D

February - Western Half of the FOFEBA (Hilly Terrain)

DAY	HOUR(S)	PASQUILL CAT
1	00-05	D
	06-09	E
	10-11	D
	12-14	D
	15-18	D
	19-21	D
	22-23	D
2	00-04	D
	05-10	D
	11-14	D
	15-16	D
	17-19	D
	20	D
	21-23	D
3	00-01	D
	02-07	D
	08-10	D
	11-12	D
	13-15	D
	16-17	D
	18-20	D
	21-23	F
4	00-02	D
	03-04	D
	05-08	D
	09-10	D
	11	D
	12-16	C
	17-18	D
	19-23	F
5	00-06	F
	07-09	C
	10-23	C-F
6	00-02	F
	03-05	F
	06-12	D
	13-14	C
	15-23	C-F
7	00-01	F
	02-04	E
	05-07	E
	08	D
	09-10	D
	11-12	D
	13-15	D
	16-18	D
	19-23	D
8	00-02	F
	03-06	F
	07-08	D
	09-10	D
	11-12	D
	13	D
	14-17	D
	18-19	F
	20-23	F
9	00-02	E
	03-05	D
	06-09	D
	10-14	D
	15-18	D
	19-23	D
10	00-01	D
	02-07	D
	08-09	D
	10	D
	11-13	D
	14	D
	15	D
	16	D
	17-21	D
	22-23	D
11	00-02	D
	03-07	D
	08-11	D
	12-13	D
	14-17	C
	18-23	D

February - Western Half of the FOFEBA (Hilly Terrain)

DAY	HOUR(S)	PASQUILL CAT
12	00-01	D
	02-04	D
	05-06	D
	07-08	D
	09	D
	10-12	D
	13	D
	14	D
	15-17	D
	18	D
	19-22	D
	23	D
13	00-04	D
	05-12	D
	13-16	D
	17-19	D
	20-23	F
14	00-01	D
	02-07	D
	08	C
	09-11	C
	12-16	C
	17-23	E
15	00-03	D
	04-05	D
	06-09	D
	10-11	D
	12-14	D
	15-18	D
	19-20	D
	21-23	D
16	00-01	D
	02-04	D
	05-08	D
	09-10	D
	11-12	D
	13-14	D
	15-19	D
	20-21	D
	22-23	D
17	00-01	D
	02-06	D
	07	D
	08-10	D
	11-12	D
	13-14	D
	15-17	D
	18-20	D
	21-23	D
18	00-04	D
	05-07	D
	08-10	D
	11-15	D
	16-17	D
	18-20	F
	21-23	F
19	00-02	F
	03-04	F
	05-06	D
	07-11	D
	12	D
	13-19	D
	20-23	D
20	00-02	D
	03-05	D
	06-08	D
	09-10	D
	11-12	D
	13-14	D
	15-16	D
	17-20	D
	21-23	D
21	00-01	F
	02-05	F
	06-08	F
	09	C
	10-11	C
	12-13	B
	14-17	B
	18-23	F

February - Western Half of the FOFEBA (Hilly Terrain)

DAY	HOUR(S)	PASQUILL CAT
22	00-01	F
	02-05	F
	06-08	F
	09-10	C
	11-12	B
	13-14	B
	15-18	C
	19-23	F
23	00-02	F
	03-05	F
	06-07	F
	08-09	C
	10-12	C
	13-15	D
	16-18	D
	19-20	E
	21-23	F
24	00-03	F
	04-07	F
	08-11	C
	12-13	B
	14-16	D
	17-18	D
	19-20	D
	21-23	D
25	00-01	D
	02-03	D
	04-10	D
	11-13	D
	14-16	D
	17	D
	18-20	D
	21-23	D
26	00-03	D
	04-05	D
	06-08	D
	09-10	D
	11-14	D
	15-19	D
	20-23	D
27	00-02	D
	03-08	D
	09-12	D
	13-21	D
	22-23	D
28	00-05	F
	06-09	F
	10-13	D
	14-16	D
	17-22	E
	23	D

February - Western Half of the FOFEBA (River Valleys)

DAY	HOUR(S)	PASQUILL CAT
1	00-07	E
	08-10	D
	11-13	D
	14-18	D
	19-21	D
	22-23	D
2	00-06	D
	07-08	D
	09	D
	10-11	D
	12	D
	13-17	D
	18	D
	19-21	D
	22-23	D
3	00-01	D
	02-04	D
	05-06	D
	07-08	D
	09-17	D
	18-21	E
	22-23	F
4	00	F
	01-02	D
	03-10	D
	11-13	C
	14-16	C
	17-23	F
5	00-07	F
	08-13	F-D
	14-23	D-F
6	00-05	F
	06-07	F
	08-09	C
	10-11	D
	12-13	D
	14-23	C-F
7	00-02	F
	03-04	F
	05-07	F
	08-14	D
	15-18	D
	19-23	D
8	00-03	D
	04-06	D
	07-09	D
	10	D
	11-12	C
	13-14	D
	15-18	C
	19-20	F
	21-23	F
9	00-03	E
	04-07	D
	08	D
	09-13	D
	14-17	D
	18-23	D
10	00-02	D
	03-05	D
	06-09	D
	10-12	C
	13	D
	14	D
	15	D
	16-18	D
	19-23	D
11	00-06	D
	07-10	D
	11-12	D
	13-16	D
	17-20	D
	21-23	D

February - Western Half of the FOFEBA (River Valleys)

DAY	HOUR(S)	PASQUILL CAT
12	00-05	D
	06-08	D
	09-13	D
	14-15	D
	16-23	D
13	00-05	D
	06-07	D
	08-14	D
	15-18	D
	19-20	F
	21-23	D
14	00-05	D
	06-07	D
	08-10	C
	11-17	C
	18-21	F
	22-23	F
15	00-07	D
	08-11	D
	12-14	D
	15-23	D
16	00-01	D
	02-03	D
	04-07	D
	08-11	D
	12	D
	13-14	D
	15-18	D
	19-21	F
	22-23	D
17	00-01	D
	02-05	D
	06-08	D
	09-11	D
	12-20	D
	21-23	D

DAY	HOUR(S)	PASQUILL CAT
18	00-02	D
	03-05	D
	06-09	D
	10-11	D
	12-19	D
	20-21	F
	22-23	F
19	00	E
	01-02	E
	03-05	D
	06-11	D
	12	D
	13-16	D
	17-18	D
	19-23	D
20	00-03	D
	04-05	D
	06-09	D
	10-11	D
	12-13	D
	14-17	D
	18-19	D
	20-23	F
21	00-02	F
	03	F
	04-05	F
	06-07	F
	08	D
	09	C
	10-11	C
	12-17	C-D
	18-23	F
22	00-02	F
	03-04	F
	05	F
	06-07	F
	08	D
	09	C
	10	C
	11-12	B
	13-14	B
	15-18	C
	19-23	F

February - Western Half of the FOFEBA (River Valleys)

DAY	HOUR(S)	PASQUILL CAT
23	00-03	F
	04-05	F
	06-07	D
	08-09	D
	10	D
	11-16	D
	17-18	D
	19-23	D
24	00	F
	01-08	F
	09-11	D
	12-15	C
	16-17	D
	18-23	D
25	00-01	D
	02-03	D
	04-05	D
	06-07	D
	08	D
	09-11	D
	12-13	D
	14-15	D
	16-19	D
	20-23	D
26	00-05	D
	06-09	D
	10-12	D
	13-14	D
	15-17	D
	18	D
	19-22	D
	23	D
27	00-05	D
	06-14	D
	15-19	D
	20-23	D
28	00-01	D
	02-05	D
	06-17	D
	18-23	D

FOFEBA STUDY
JULY SCENARIO - EASTERN AREA

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
1.	00-05	40620	H	3	280/02
	06-08	40	FH	1.5	270/01
	09-11	40	H	8	290/02
	12-16	60420		14	290/03
	17-20	100420		12	030/02
	21-23	420600	H	9	020/0.5
2	00-05	600	H	5	230/0.5
	06-08	CLEAR	H	4	260/01
	09-12	100		10	260/02
	13-18	120		15	240/02
	19-23	420600		18	180/02
3	00-06	420600	H	8	190/0.5
	07-12	150600		15	300/01
	13-18	150600		18	290/0.5
	19-23	150600		15	200/01
4	00-02	150	H	8	180/0.5
	03-05	120250	TRW-	10	090/02
	06-08	90	RW	3	CALM
	09-10	100200	H	5	CALM
	11-14	100200600		18	240/03

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
4	15-20	12030		18	200/04
	21-22	10030	F-	8	190/0.5
	23	10	TRW-	10	290/01
5	00-03	120300600		15	300/02
	04-05	120300600	H	8	250/01
	06-08	300600	H	10	240/01
	09-11	90300		12	240/02
	12-13	90270	R-	8	230/03
	14-18	100270		20	240/04
	19-20	80270600		25	270/05
	21	80	TRW-	6	250/02
	22-23	100270600	H	10	250/0.5
6	00-06	100270600		15	270/02
	07	8025		12	290/03
	08	70	R-	6	300/02
	09-14	60	R	5	250/01
	15	40	TRW+	0.6	030/05
	16-18	30	R	1	020/01
	19-23	40	R	2	350/02
7	00-02	6020	H	4	290/01
	03-05	50	R	3	350/04
	06-08	6020		12	290/05

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
7	09-15	80270		30	270/06
	16-17	100300600	TRW-	10	270/08
	18-23	100300600		20	250/02
8	00-02	80300	R-	10	260/03
	03-06	70300	H	8	270/04
	07-08	70300	RW-	7	290/06
	09-16	100320		25	290/07
	17-23	120320700		25	260/02
9	00-04	320700		15	250/02
	05-10	70320	H	5	250/03
	11-14	90350	H	8	260/05
	15	90	RW-	10	280/05
	16-20	100350		10	240/02
	21-23	100350	H	5	230/01
10	00-06	100350	H	5	250/02
	07-08	120350	H	8	250/02
	09	120350	R-	6	250/01
	10-16	130380		12	240/02
	17-20	120380		15	230/03
	21	100380	RW-	12	250/05
	22-23	100380	H	9	220/02
11	00-06	380	H	9	100/03

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
11	07-09	380		12	180/03
	10-12	100380620		18	220/05
	13	100380	TRW-	10	230/05
	14	90350	RW-	12	290/05
	15-18	80350		14	280/04
	19-20	60300		10	270/03
	21-22	50300	R-	8	260/03
	23	60300		12	260/02
12	00-06	70300	H	7	270/04
	07-12	100300		20	290/05
	13-18	120300		20	250/03
	19-23	120300		15	210/03
13	00-03	320	H	10	220/03
	04-09	100320	H	10	250/02
	10-18	130350		25	270/04
	19-23	130350420		18	210/03
14	00-03	130350420	H	10	230/02
	04-08	120350420		18	240/03
	09-15	110350		30	270/06
	16-19	100160		25	270/07
	20-21	100160	RW-	12	260/05
	22-23	100160		20	250/04

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
15	00-06	200		20	270/03
	07-09	200	H	8	260/04
	10-12	120250600		18	270/05
	13-18	120250		20	250/03
	19-21	120250		15	250/02
	22-23	250		12	270/01
16	00-03	CLEAR		14	230/03
	04	100250	H	10	180/02
	05	100250		13	160/02
	06	100250	R-	10	190/04
	07-11	90220	R-	12	220/03
	12-14	100220	RW-	10	200/06
	15-18	90223		18	230/04
	19-23	90		12	220/04
17	00-02	90	H	10	250/03
	03	90	R-	9	250/02
	04-09	100		18	290/03
	10-12	100300		20	290/02
	13	100300	RW-	12	300/01
	14-18	120300		25	300/01
	19-23	120300		20	330/02
18	00-02	300		13	360/03

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
18	03-04	8030		12	020/02
	05	6030		12	030/01
	06	50	R	2.5	020/01
	07-11	4.50	R	1	040/07
	12-14	40	R	0.5	050/06
	15-19	30	F	0.2	050/03
	20	20	F	0.1	050/01
	21	OBSCURED	TRWF	0.1	080/02
	22-23	OBSCURED	F	0.2	090/01
19	00-06	OBSCURED	F	0.1	080/01
	07	Partially Obscured	F	0.3	070/0.5
	08	30	F	1	080/0.5
	09	40	H	2.5	080/01
	10	60	H	3	070/02
	11	80	H	4	060/01
	12	60	TRW	5	080/04
	13-16	80	H	6	120/02
	17-18	90	TRW-	10	150/04
	19-23	100		20	220/04
20	00-02	100250	H	10	270/02
	03-04	80250	R	4	240/02
	05-07	80250	H	3	290/03
	08-09	70250	R	3	270/06

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
20	10-15	90250	H	5	270/05
	16-18	100250	H	10	290/02
	19-23	250620	H	6	CALM
21	00-05	OBSCURED	F	0.2	260/0.5
	06-07	OBSCURED	LF	0.1	250/01
	08	Partially Obscured 1.50	FH	2	250/02
	09	20	H	2.5	250/01
	10-12	30	H	6	CALM
	13-15	60	H	10	290/01
	16-23	60	H	6	290/02
22	00-02	60	H	3	280/01
	03-06	30	R	1	270/1.5
	07-10	60	H	8	290/2
	11-14	60250	H	10	310/3.5
	15-16	80250	TRW-	10	030/02
	17-19	100250		14	360/2.5
	20-23	100250		12	340/04
23	00-02	100250	H	8	350/02
	03-05	30100	H	6	310/06
	06-08	30	H	2.8	320/05
	09-11	30	L-	4	300/04
	12-14	50	H	8	280/4.5

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
23	15-18	100		15	290/03
	19-23	100		15	290/02
24	00-02	100		9	CALM
	03-05	100	F	2	260/01
	06-08	CLEAR	GF	4	250/01
	09-15	120		12	350/01
	16-23	620		20	240/02
25	00-03	CLEAR			
	04-06	300	H	8	200/02
	07-10	100300	H	8	250/05
	11-12	100300	RW-	10	270/06
	13-18	110		25	290/06
	19-23	110		20	290/03
26	00-02	CLEAR		20	290/02
	03-05	160350		25	290/03
	06-11	160350		18	190/02
	12-14	140350		20	290/02
	15-16	120320	TRW-	15	040/02
	17-20	120320		15	020/02
	21-23	120		12	250/02
27	00-02	CLEAR		15	250/02

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
27	03-05	130		17	200/02
	06-12	130300600		15	230/03
	13-17	130300600		20	220/04
	18-19	120300	RW-	15	250/03
	20-23	120300		20	270/03
28	00-02	120300		20	250/02
	03-06	120320	H	10	290/03
	07-15	120350620		35	290/04
	16-23	140380		30	290/01
29	00-06	140380		15	270/02
	07-12	120380		20	200/03
	13-17	120380620		35	250/04
	18-23	120380620		20	200/04
30	00-02	120380620	H	10	200/02
	03-05	100340600	H	10	210/03
	06	80300600	R-	10	270/05
	07-11	80300600		30	260/06
	12-15	100320		35	240/4.5
	16	80300	RW-	10	250/05
	17	100300		35	270/5.5
	18-19	90300	RW-	12	280/06

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
30	20-23	120320		25	250/02
31	00-05	120320		20	230/04
	06-12	120320		35	250/05
	13-18	140350		40	270/08
	19-23	150		35	250/04

FOFEBA STUDY
JULY SCENARIO - WESTERN AREA

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
1	00-05	10	F	4	240/05
	06-08	4.5	F	1.5	240/01
	09-11	7	H	4	160/02
	12-15	12		15	190/03
	16-18	12		20	230/02
	19-21	30		25	340/01
	22-23	CLEAR		15	340/02
2	00-03	CLEAR		15	CALM
	04-06	CLEAR	GF	8	050/0.5
	07-11	CLEAR		12	230/01
	12-16	12		20	200/04
	17-20	12		20	190/02
	21-23	42		12	210/02
3	00-03	12042		10	210/02
	04-06	10042	GF	5	150/01
	07-10	42		14	240/02
	11-13	42		20	170/03
	14-18	15060		22	180/01
	19-20	15060		15	160/02
	21-23	15060		10	170/02

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
4	00-01	140		10	150/01
	02	120250	TRW-	8	080/02
	03	100200	R-	6	060/01
	04-06	90200600	GF	5	350/0.5
	07-09	100		10	180/02
	09-12	100300		20	150/02
	13-16	120		25	200/03
	17	100420	TRW-	7	250/06
	18-20	100300		12	190/01
	21	100270	T	12	180/02
	22-23	110300		16	170/01
5	00-02	120600		12	180/02
	03-05	7.50120	F-	6	200/01
	06-08	60		12	180/1.5
	09-11	90		12	180/3.5
	12-14	7.50	R	5	200/03
	15	80	TRW-	15	220/05
	16	100		20	230/03
	17-21	100250		20	230/02
	22-23	140		18	180/0.5
6	00-02	80200		18	190/0.5
	03	60200	R-F-	8	180/01

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
6	04-06	60	F	3.5	330/01
	07-10	4.50	L-	3.5	350/01
	11-14	5.10	R-L-	8	340/1.8
	15-17	7.40	R-L-	10	330/1.5
	18-20	80	L-	12	330/01
	21-23	30	R	4	340/02
7	00-03	30	R	5	330/03
	04-06	60	F	4	340/02
	07-09	80600	F—	12	320/03
	10-14	80		30	290/04
	15	110400	TRW—	15	300/03
	16-18	120400600		30	350/2.5
	19-20	100400600		30	300/02
	21-23	80350	L-	15	310/1.5
8	00-03	70330		20	300/0.5
	04-07	70300		20	290/02
	08	80300650		15	290/01
	09	80280	RW-	12	290/03
	10-14	100		25	270/04
	15-18	120320700		30	270/3.5
	19-23	140350		25	290/1.5
9	00-05	120300		20	240/01

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
9	06-08	10030	F-	8	190/01
	09	90	L-	6	190/1.5
	10-14	10035		15	300/02
	15-17	100	RW-	10	290/03
	18-22	12035		15	240/01
	23	120	F	4	180/0.5
10	00-04	70	F	1.8	180/01
	05-06	90	F	2	200/01
	07-10	100	F-	6	200/02
	10-12	12035		15	220/01
	13	120	RW-	10	230/02
	14-18	14038		18	180/02
	19-23	14038		15	180/01
11	00-02	12038		15	180/1.5
	03-04	120	R	5	140/1.5
	05-08	12035		10	220/02
	09-12	10035	R	3	190/2.5
	13-17	80		15	300/2.5
	18	60270	R-	12	260/02
	19-23	90270		15	270/1.5
12	00-02	90270		20	290/2.5
	03-06	100		25	270/03

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
12	07-11	10Φ30Φ		30	290/02
	12-18	120309		30	250/02
	18-21	12032Φ		20	230/02
	22-23	15Φ		14	230/0.5
13	00-06	150		10	200/01
	07-12	120		12	200/02
	13-17	100320		30	250/04
	18-23	120340		20	250/0.5
14	00-03	100340		15	190/0.5
	04-08	340		15	210/01
	09-12	120340		15	220/2.5
	12-14	90140350		25	240/3.5
	15	90150429	RW-	20	230/04
	16-17	110160420		25	270/03
	18	100159	R—	10	270/02
	19	100150429		20	250/01
	20	100150	RW—	15	240/04
	21-23	100150		20	250/01
15	00-03	100150		20	190/01
	04-07	100150		25	190/02
	08-12	90600		20	180/01
	13	90250	RW-	18	300/02
	14-17	120250		20	230/3.5

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
15	18	100250	RW-	12	220/2.5
	19-23	120250		20	220/01
16	00-04	120		15	150/01
	05	90		12	180/02
	06-08	90	R	5	190/1.5
	10-11	7.80	R	5	180/03
	12-14	6.90	RW-	10	180/4.5
	15-17	70		12	190/02
	18-20	50	F-	8	200/01
	21-23	70		15	230/1.5
17	00-05	90		10	310/03
	06-10	120300		18	320/02
	11-14	120300620		25	260/01
	15	100300		25	250/02
	16	80300	TRW-	15	180/01
	17-20	100300600		25	270/02
	21-23	120		20	340/02
18	00-03	120		20	260/01
	04-07	120300620		15	340/0.5
	08	100300		12	350/03
	09-11	80300	R-	10	320/02
	12-14	60270	R	6	350/02

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
18	15	5.5⊕	L	3	020/02
	16-18	5⊕	L	2.5	360/01
	19-23	4.6⊕	R	3	310/02
19	00-02	4⊕	RW	2.5	340/01
	03-05	3.6⊕	F	2	340/01
	06-08	2⊕	F	1.8	330/01
	09-11	5⊕	H	4	100/02
	12-15	10⊕		6	110/2.5
	16	10027⊕	T	25	140/04
	17	9⊕	TRW—	10	160/06
	18	10025⊕		15	150/02
	19-21	9⊕	R-	7	180/01
	22-23	10⊕		10	180/01
20	00-02	11⊕		10	180/01
	03-05	11⊕	F-	7	180/01
	06-08	10⊕	F	2.5	180/01
	09-11	10⊕	F	4	190/01
	12	10⊕	R	5	200/02
	13-15	9⊕	F	5	CALM
	16-18	11⊕	R-	6	020/01
	19-23	12025⊕	F-	7	360/01
21	00	12025⊕	F	2.5	CALM

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
21	01-04	OBSCURED	F	0.1	CALM
	05-06	OBSCURED	F	0.3	CALM
	07-09	20	F	1.5	170/0.5
	10-14	80	F	5.5	360/01
	15-18	120270620		10	030/02
	19-23	12027O	F	3	360/02
22	00	40120	F	3	350/02
	01-02	30	F	3	340/02
	03-05	2.40	R-F	2	330/01
	06	2.20	F	1.5	320/01
	07-09	30	F	4	340/01
	10-15	6.90		13	350/03
	16-20	100		25	340/04
	21	100250	RW-	10	350/03
	22-23	100250		10	340/02
23	00-03	80		10	340/02
	04-09	70		10	340/03
	10-14	90		15	320/04
	15-20	90620		25	340/02
	21-23	CLEAR		25	360/01
24	00-03	CLEAR		25	010/0.5
	04-05	CLEAR	GF-	6	CALM

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
24	06	OBSCURED	F	0.2	CALM
	07-08	4.20	F	2	350/0.5
	09-15	100		20	180/02
	16-20	12062		20	180/02
	21-23	620		15	230/01
25	00-02	620		10	210/0.5
	03	30062	H	5	220/01
	04	10030062	H	4	170/02
	05	10030	RW-	8	160/01
	06-08	8030	F	4	330/02
	09	7030	R-	12	350/01
	10-13	7030		20	250/02
	14-18	10030		30	280/01
	19-23	150		30	190/01
26	00-02	CLEAR		20	170/0.5
	03-08	16035		20	120/01
	09-15	16035		15	180/01
	16-17	10016		20	340/02
	18	11016	TRW-	10	350/01
	19-23	130		12	230/01
27	00-05	130		12	180/01
	06-09	130		20	150/02

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
27	10	13⊕	RW-	10	160/01
	11-14	130300		16	190/01
	15	120300	TRW-	10	270/01
	16-20	140320		25	290/01
	21-23	100		15	300/02
28	00-06	100		15	300/02
	07-14	120350		30	290/03
	15-23	150		35	270/01
29	00-04	150600		20	CALM
	05-09	120390		18	180/01
	10-15	140390620		25	220/04
	16-19	14039⊕		20	210/03
	20	14⊕	R-	7	300/3.6
	21-23	12039⊕		12	290/01
30	00-03	10034⊕	R-	7	180/02
	04-06	6030⊕	R-	6	180/02
	07-10	60300		15	200/03
	11-15	80320600		20	240/02
	16	100340600	TRW-	15	240/05
	17-19	10034⊕		20	230/03
	20-23	90320		25	200/1.5
31	00	9032⊕	TRW-	12	230/02

DAY	HOUR(S)	CLOUD BASE (METERS X 100)	WEATHER	VIS (KM)	WIND DIR/SPD(M/SEC)
31	01-04	90320		20	240/01
	05-08	90320		25	220/03
	09-14	100350		35	210/05
	15-17	120		30	250/03
	18-20	130	RW-	15	230/02
	21-23	140		20	150/02

July - Eastern Area of the FOFEBA Study (All Terrain)

DAY	HOUR(S)	PASQUILL CAT
1	00-05	F
	06-08	C
	09-11	D
	12-16	B
	17-20	C
	21-23	F
2	00-05	F
	06-08	B
	09-12	B
	13-18	B
	19-23	D
3	00-06	D
	07-12	B
	13-18	C
	19-23	D
4	00-02	D
	03-05	D
	06-08	D
	09-10	D
	11-14	C
	15-20	D
	21-22	D
	23	D
5	00-03	D
	04-05	C
	06-08	C
	09-11	C
	12-13	C
	14-18	D
	19-20	D
	21	D
	22-23	F
6	00-06	E
	07	D
	08	D
	09-14	D
	15	D
	16-18	D
	19-23	D
7	00-02	D
	03-05	D
	06-08	D
	09-15	D
	16-17	D
	18-23	D
8	00-02	D
	03-06	D
	07-08	D
	09-16	D
	17-23	D
9	00-04	F
	05-10	B
	11-14	D
	15	D
	16-20	D
	21-23	F
10	00-06	E
	07-08	D
	09	C
	10-16	D
	17-20	D
	21	D
	22-23	E
11	00-06	E
	07-09	D
	10-12	D
	13	D
	14	D
	15-18	D
	19-20	D
	21-22	D
	23	E
12	00-06	E
	07-12	C
	13-18	D
	19-23	F

July - Eastern Area of the FOFEBA Study (All Terrain)

DAY	HOUR(S)	PASQUILL CAT
13	00-03	F
	04-09	D
	10-18	D
	19-23	F
14	00-03	F
	04-08	D
	09-15	D
	16-19	D
	20-21	D
	22-23	D
15	00-06	F
	07-09	C
	10-12	C
	13-18	D
	19-21	D
	22-23	F
16	00-03	E
	04	E
	05	D
	06	D
	07-11	D
	12-14	D
	15-18	D
	19-23	D
17	00-02	E
	03	E
	04-09	D
	10-12	C
	13	B
	14-18	B
	19-23	F
18	00-02	F
	03-04	D
	05	D
	06	D
	07-11	D
	12-14	D
	15-19	D
	20	D
	21	D
	22-23	D
19	00-06	D
	07	D
	08	B
	09	C
	10	D
	11	C
	12	C
	13-16	C
	17-18	D
	19-23	D
20	00-02	E
	03-04	E
	05-07	D
	08-09	D
	10-15	D
	16-18	B
	19-23	F
21	00-05	D
	06-07	D
	08	D
	09	D
	10-12	C
	13-15	C
	16-23	D
22	00-02	D
	03-06	D
	07-10	D
	11-14	D
	15-16	D
	17-19	D
	20-23	D
23	00-02	F
	03-05	D
	06-08	D
	09-11	D
	12-14	D
	15-18	D
	19-23	F

July - Eastern Area of the FOFEBA Study (All Terrain)

DAY	HOUR(S)	PASQUILL CAT
24	00-02	F
	03-05	F
	06-08	B
	09-15	B
	16-23	C
25	00-03	F
	04-06	C
	07-10	C
	11-12	D
	13-18	D
	19-23	F
26	00-02	F
	03-05	F
	06-11	D
	12-14	D
	15-16	D
	17-20	D
	21-23	F
27	00-02	F
	03-05	F
	06-12	D
	13-17	D
	18-19	D
	20-23	E
28	00-02	F
	03-06	D
	07-15	D
	16-23	F
29	00-06	F
	07-12	C
	13-17	D
	18-23	D
30	00-02	E
	03-05	E
	06	D
	07-11	D
	12-15	D
	16	D
	17	D
	18-19	D
	20-23	E
31	00-05	D
	06-12	D
	13-18	D
	19-23	E

July - Western Area FOFEBA Study (All Terrain)

DAY	HOUR(S)	PASQUILL CAT
1	00-05	D
	06-08	C
	09-11	C
	12-15	B
	16-18	C
	19-21	C
	22-23	F
2	00-03	F
	04-06	F
	07-11	C-B
	12-16	C
	17-20	D
	21-23	F
3	00-03	E
	04-06	F
	07-10	C
	11-13	B
	14-18	B
	19-20	D
	21-23	D
4	00-01	D
	02	D
	03	D
	04-06	D
	07-09	D
	10-12	D
	13-16	D
	17	D
	18-20	C
	21	E
	22-23	F
5	00-02	E
	03-05	D
	06-08	F
	09-11	D
	12-14	D
	15	D
	16	D
	17-21	D
	22-23	D
6	00-02	D
	03	D
	04-06	D
	07-10	D
	11-14	D
	15-17	D
	18-20	D
	21-23	D
7	00-03	D
	04-06	D
	07-09	D
	10-14	D
	15	D
	16-18	D
	19-20	D
	21-23	D
8	00-03	D
	04-07	D
	08	C
	09	D
	10-14	D
	15-18	C
	19-23	F

July - Western Area FOFEBA Study (All Terrain)

DAY	HOUR(S)	PASQUILL CAT
9	00-05	F
	06-08	D
	09	D
	10-14	C
	15-17	D
	18-22	D
	23	D
10	00-04	D
	05-06	D
	07-10	D
	11-12	C
	13	D
	14-18	D
	19-23	F
11	00-02	F
	03-04	D
	05-08	D
	09-12	D
	13-17	D
	18	D
	19-23	D
12	00-02	E
	03-06	F
	07-11	C
	12-18	C
	19-21	D
	22-23	D
13	00-06	F
	07-12	D
	13-17	D
	18-23	F
14	00-03	F
	04-08	C
	09-12	C
	13-14	C
	15	D
	16-17	D
	18	D
	19	D
	20	D
	21-23	F
15	00-03	F
	04-07	D
	08-12	B
	13	C
	14-17	D
	18	D
	19-23	F
16	00-04	F
	05	D
	06-08	D
	10-11	D
	12-14	D
	15-17	D
	18-20	D
	21-23	F
17	00-05	D
	06-10	D
	11-14	B
	15	D
	16	D
	17-20	D
	21-23	E

July - Western Area of the FOFEBA Study (All Terrain)

DAY	HOUR(S)	PASQUILL CAT
18	00-03	F
	04-07	C
	08	D
	09-11	D
	12-14	D
	15	D
	16-18	D
	19-23	D
19	00-02	D
	03-05	D
	06-08	D
	09-11	C
	12-15	D
	16	D
	17	D
	18	D
	19-21	D
	22-23	F
20	00-02	F
	03-05	F
	06-08	C
	09-11	C
	12	D
	13-15	D
	16-18	D
	19-23	D
21	00	E
	01-04	D
	05-06	D
	07-09	C
	10-14	C
	15-18	D
	19-23	D
22	00	E
	01-02	D
	03-05	D
	06	D
	07-09	D
	10-15	D
	16-20	D
	21	D
	22-23	E
23	00-03	E
	04-09	D
	10-14	D
	15-20	C
	21-23	F
24	00-03	F
	04-05	F
	06	D
	07-08	B
	09-15	B
	16-20	D
	21-23	F
25	00-02	F
	03	F
	04	E
	05	D
	06-08	D
	09	D
	10-13	C
	14-18	B
	19-23	F

July - Western Area of the FOFEBA Study (All Terrain)

DAY	HOUR(S)	PASQUILL CAT
26	00-02	F
	03-08	F-D
	09-15	C
	16-17	C
	18	D
	19-23	F
27	00-05	D
	06-09	D
	10	D
	11-14	D
	15	D
	16-20	C
	21-23	E
28	00-06	E
	07-14	C-B
	15-23	C-F
29	00-04	F
	05-09	B
	10-15	C
	16-19	D
	20	D
	21-23	D
30	00-03	D
	04-06	D
	07-10	D
	11-15	D
	16	D
	17-19	D
	20-23	D
31	00	D
	01-04	F
	05-08	C
	09-14	C
	15-17	D
	18-20	D
	21-23	E

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	HEIGHT CATEGORIES A	B	C	D	LOOK ANGLES
1	00-05	1.00	1.00	.83	.83	90
		.99	.99	.81	.81	50
		.98	.98	.75	.75	30
		.97	.97	.58	.58	10
1	06-08	1.00	1.00	.55	.55	
		.99	.99	.52	.52	
		.98	.98	.43	.43	
		.97	.97	.28	.28	
1	09-11	1.00	1.00	.68	.68	
		.99	.99	.63	.63	
		.98	.98	.55	.55	
		.97	.97	.38	.38	
1	12-16	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
1	17-20	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
1	21-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
2	00-08	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
2	09-12	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
2	13-18	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
2	19-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
3	00-23	1.00	1.00	1.00	1.	
		.99	.99	.99	.	
		.98	.98	.98	.	
		.97	.97	.97	.	
4	00-02	1.00	1.00	1.00	1.	
		.99	.99	.99	.	
		.98	.98	.98	.	
		.97	.97	.97	.	
4	03-05	1.00	1.00	1.00	.	
		.99	.99	.99	.	
		.98	.98	.98	.	
		.97	.97	.97	.17	
4	06-08	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
4	09-10	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
4	11-14	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
4	15-20	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
4	21-22	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
4	23	1.00	1.00	1.00	.08	90
		.99	.99	.99	.08	50
		.98	.98	.98	.06	30
		.97	.97	.97	.03	10
5	00-03	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
5	04-05	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
5	06-08	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
5	09-11	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
5	12-13	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
5	14-18	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
5	19-20	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
5	21	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
5	22-23	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
6	00-06	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
6	07	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
6	08	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
6	09-14	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
6	15	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
6	16-18	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
6	19-23	1.00	1.00	.08	.08	90
		.99	.99	.08	.08	50
		.98	.98	.06	.06	30
		.97	.97	.03	.03	10
7	00-02	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
7	03-05	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
7	06-08	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
7	09-23	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
7	00-08	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
7	09-23	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
8	00-08	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
8	09-16	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
8	17-23	1.00	1.00	1.00		
		.99	.99	.99		
		.98	.98	.98		
		.97	.97	.97		
9	00-04	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
9	05-10	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
9	11-14	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
9	15	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
9	16-20	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
9	21-23	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
10	00-08	1.00	1.00	1.00	.68	90
		.99	.99	.99	.63	50
		.98	.98	.98	.55	30
		.97	.97	.97	.38	10
10	09	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
10	10-20	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
10	21	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
10	22-23	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
11	00-09	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
11	10-12	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
12	00-06	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
12	07-12	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
12	13-18	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
12	19-23	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
13	00-03	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
13	04-18	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
13	19-23	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
14	00-08	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
14	09-15	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
14	16-19	1.00	1.00	1.00	.68	90°
		.99	.99	.99	.63	50°
		.98	.98	.98	.55	30°
		.97	.97	.97	.38	10°
14	20-21	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
14	22-23	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
15	00-09	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
15	10-12	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
15	13-18	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
15	19-21	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
15	22-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
16	00-03	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
16	04	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.80	
		.97	.97	.97	.72	
16	05-06	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
16	07-18	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
16	19-23	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
17	00-03	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
17	04-09	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT
JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
17	10-12	1.00	1.00	1.00	.77	90°
		.99	.99	.99	.73	50°
		.98	.98	.98	.66	30°
		.97	.97	.97	.47	10°
17	13	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
17	14-18	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
17	19-23	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
18	00-02	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
18	03-04	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
18	05	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
18	06-19	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
18	20	1.00	.08	.08	.08	
		.99	.08	.08	.08	
		.98	.06	.06	.06	
		.97	.03	.03	.03	
18	21-23	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
19	00-07	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
19	08	1.00	1.00	.89	.89	
		.99	.99	.87	.87	
		.98	.98	.83	.83	
		.97	.97	.72	.72	
19	09	1.00	1.00	.68	.68	
		.99	.99	.63	.63	
		.98	.98	.55	.55	
		.97	.97	.38	.38	
19	10	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
19	11	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
19	12-18	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
19	19-23	1.00	1.00	1.00	.55	90°
		.99	.99	.99	.52	50°
		.98	.98	.98	.43	30°
		.97	.97	.97	.28	10°
20	00-09	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
20	10-15	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
20	16-18	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
20	19-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
21	00-08	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
21	09	1.00	.08	.08	.08	
		.99	.08	.08	.08	
		.08	.06	.06	.06	
		.97	.03	.03	.03	
21	10-12	1.00	1.00	1.35	.35	
		.99	.99	.33	.33	
		.98	.98	.28	.28	
		.97	.97	.17	.17	

DAY	HOUR(S)	A	B	C	D
21	10-12	1.00	1.00	1.00	.35
		.99	.99	.99	.33
		.98	.98	.98	.28
		.97	.97	.97	.17
22	00-02	1.00	1.00	1.00	.96
		.99	.99	.99	.94
		.98	.98	.98	.92
		.97	.97	.97	.84
22	03-06	1.00	1.00	.08	.08
		.99	.99	.08	.08
		.98	.98	.06	.06
		.97	.97	.03	.03
22	07-10	1.00	1.00	1.00	.08
		.99	.99	.99	.08
		.98	.98	.98	.06
		.97	.97	.97	.03
22	11-16	1.00	1.00	1.00	.35
		.99	.99	.99	.33
		.98	.98	.98	.28
		.97	.97	.97	.17
22	17-19	1.00	1.00	1.00	.68
		.99	.99	.99	.63
		.98	.98	.98	.55
		.97	.97	.97	.38
22	20-23	1.00	1.00	1.00	.96
		.99	.99	.99	.94
		.98	.98	.98	.92
		.97	.97	.97	.84
23	00-02	1.00	1.00	1.00	.96
		.99	.99	.99	.94
		.98	.98	.98	.92
		.97	.97	.97	.84

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
23	03-05	1.00	1.00	.77	.35	90°
		.99	.99	.73	.33	50°
		.98	.98	.66	.28	30°
		.97	.97	.47	.17	10°
23	06-14	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
23	15-18	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
23	19-23	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
24	00-05	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
24	06-08	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
24	09-15	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
24	16-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.89	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
25	00-06	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
25	07-10	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
25	11-12	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
25	13-18	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
25	19-23	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
26	00-11	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
26	12-20	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
26	21-23	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	

EASTERN AREA
PROBABILITY OF CLOUD-FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
27	00-02	1.00	1.00	1.00	1.00	90°
		.99	.99	.99	.99	50°
		.98	.98	.98	.98	30°
		.97	.97	.97	.97	10°
27	03-05	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
27	06-12	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
27	13-17	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
27	18-23	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
28	00-02	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
28	03-23	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
29	00-06	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
29	07-12	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
29	13-17	1.00	1.00	1.00	.5	
		.99	.99	.99		
		.98	.98	.98		
		.97	.97	.97		
29	18-23	1.00	1.00	1.00		
		.99	.99	.98		
		.98	.98	.98	.6[illegible]	
		.97	.97	.97	.4[illegible]	
30	00-02	1.00	1.00	1.00	.6[illegible]	
		.99	.99	.99	.[illegible]	
		.98	.98	.98	.[illegible]	
		.97	.97	.97		
30	03-05	1.00	1.00	1.00	.6[illegible]	
		.99	.99	.99	.[illegible]	
		.98	.98	.98	.55	
		.97	.97	.97	.[illegible]	
30	06-19	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
30	20-23	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
31	00-05	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
31	06-18	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
31	19-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
1	00-05	1.00	1.00	1.00	.55	90°
		.99	.99	.99	.52	50°
		.98	.98	.98	.43	30°
		.97	.97	.97	.28	10°
1	06-08	1.00	1.00	.35	.35	
		.99	.99	.33	.33	
		.98	.98	.28	.28	
		.97	.97	.17	.17	
1	09-11	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
1	12-18	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
1	19-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
2	00-11	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
2	12-16	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
2	17-20	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
2	21-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
3	00-06	1.00	1.00	1.00	.89	
		.99	.99	.99	.87	
		.98	.98	.98	.83	
		.97	.97	.97	.72	
3	07-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
4	00-01	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
4	02	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
4	03	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
4	04-06	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
4	07-09	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
4	10-21	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
4	22-23	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
5	00-02	1.00	1.00	1.00	.77	90°
		.99	.99	.99	.73	50°
		.98	.98	.98	.66	30°
		.97	.97	.97	.47	10°
5	03-05	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
5	06-08	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
	09-14	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
5	15	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
5	16	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
5	17-21	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
5	22-23	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
6	00-02	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
6	03	1.00	1.00	1.00	.55	
		.99	.99	.99	.5?	
		.98	.98	.98	.4.	
		.97	.97	.97	.2?	
6	04-06	1.00	1.00	1.00	.	
		.99	.99	.99	..	
		.98	.98	.98	.0.	
		.97	.97	.97	.0.	
6	07-14	1.00	1.00	.08	.0?	
		.99	.99	.08	.0?	
		.98	.98	.06	.0.	
		.97	.97	.03	.03	
6	15-20	1.00	1.00	1.00	.0?	
		.99	.99	.99	.0.	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
6	21-23	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
7	00-03	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
7	04-06	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
7	07-09	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
7	10-14	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
7	15	1.00	1.00	1.00	.35	90°
		.99	.99	.99	.33	50°
		.98	.98	.98	.28	30°
		.97	.97	.97	.17	10°
7	16-18	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
7	19-20	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
7	21-23	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
8	00-03	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
8	04-07	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
8	08	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
8	09-14	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
8	15-23	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
9	00-05	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
9	06-08	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
9	09	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
9	10-14	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
9	15-17	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
9	18-22	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
9	23	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
10	00-06	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
10	07-12	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
10	13	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
10	14-18	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
10	19-23	1.00	1.00	1.00	.77	90°	12	19-21	1.00	1.00	1.00	.68
		.99	.99	.99	.73	50°			.99	.99	.99	.63
		.98	.98	.98	.66	30°			.98	.98	.98	.58
		.97	.97	.97	.47	10°			.97	.97	.97	.38
	00-02	1.00	1.00	1.00	.68		12	22-23	1.00	1.00	1.00	1
		.99	.99	.99	.63				.99	.99	.99	
		.98	.98	.98	.55				.98	.98	.98	
		.97	.97	.97	.38				.97	.97	.97	.9
11	03-04	1.00	1.00	1.00	.08		13	00-06	1.00	1.00	1.00	1.00
		.99	.99	.99	.08				.99	.99	.99	.99
		.98	.98	.98	.06				.98	.98	.98	.98
		.97	.97	.97	.03				.97	.97	.97	.9
	05-12	1.00	1.00	1.00	.55		13	07-23	1.00	1.00	1.00	
		.99	.99	.99	.52				.99	.99	.99	
		.98	.98	.98	.43				.98	.98	.98	
		.97	.97	.97	.28				.97	.97	.97	.38
11	13-17	1.00	1.00	1.00	.08		14	00-03	1.00	1.00	1.00	.89
		.99	.99	.99	.08				.99	.99	.99	.87
		.98	.98	.98	.06				.98	.98	.98	.83
		.97	.97	.97	.03				.97	.97	.97	.72
11	18	1.00	1.00	1.00	.35		14	04-08	1.00	1.00	1.00	1.00
		.99	.99	.99	.33				.99	.99	.99	.99
		.98	.98	.98	.28				.98	.98	.98	.98
		.97	.97	.97	.17				.97	.97	.97	.97
11	15-23	1.00	1.00	1.00	.68		14	09-12	1.00	1.00	1.00	.96
		.99	.99	.99	.63				.99	.99	.99	.94
		.98	.98	.98	.55				.98	.98	.98	.92
		.97	.97	.97	.38				.97	.97	.97	.84
12	00-06	1.00	1.00	1.00	.83		14	13-14	1.00	1.00	1.00	.35
		.99	.99	.99	.81				.99	.99	.99	.33
		.98	.98	.98	.75				.98	.98	.98	.28
		.97	.97	.97	.58				.97	.97	.97	.17
12	07-18	1.00	1.00	1.00	.77		14	15	1.00	1.00	1.00	.68
		.99	.99	.99	.73				.99	.99	.99	.63
		.98	.98	.98	.66				.98	.98	.98	.55
		.97	.97	.97	.47				.97	.97	.97	.38

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
14	16-17	1.00	1.00	1.00	.55	90°
		.99	.99	.99	.52	50°
		.98	.98	.98	.43	30°
		.97	.97	.97	.28	10°
14	18-23	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
15	00-12	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
15	13-17	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
15	18-23	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
16	00-05	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
16	06-17	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
16	18-20	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
16	21-23	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
17	00-05	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
17	06-10	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
17	11-14	1.00	1.00	1.00	.77	
		.99	.99	.99	.73	
		.98	.98	.98	.66	
		.97	.97	.97	.47	
17	15	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
17	16	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
17	17-23	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
18	00-07	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
18	08	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	
18	09-14	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
	15-23	1.00	1.00	.08	.08	90°	20	00-08	1.00	1.00	1.00	.68
		.99	.99	.08	.08	50°			.99	.99	.99	.63
		.98	.98	.06	.06	30°			.98	.98	.98	.55
		.97	.97	.03	.03	10°			.97	.97	.97	.39
	00-05	1.00	1.00	.08	.08		20	09-11	1.00	1.00	1.00	[illegible]
		.99	.99	.08	.08				.99	.99	.99	[illegible]
		.98	.98	.06	.06				.98	.98	.98	[illegible]
		.97	.97	.03	.03				.97	.97	.97	[illegible]
	06-08	1.00	.08	.08	.08		20	12-18	1.00	1.00	1.00	.06
		.99	.08	.08	.08				.99	.99	.99	.08
		.98	.06	.06	.06				.98	.98	.98	.06
		.97	.03	.03	.03				.97	.97	.97	.03
	09-11	1.00	1.00	.35	.35		20	19-23	1.00	1.00	1.00	[illegible]
		.99	.99	.33	.33				.99	.99	.99	[illegible]
		.98	.98	.28	.28				.98	.98	.98	.28
		.97	.97	.17	.17				.97	.97	.97	.17
	12-16	1.00	1.00	1.00	.35		21	00	1.00	1.00	1.00	[illegible]
		.99	.99	.99	.33				.99	.99	.99	.73
		.98	.98	.98	.28				.98	.98	.98	.66
		.97	.97	.97	.17				.97	.97	.97	.47
	17	1.00	1.00	1.00	.08		21	01-06	.08	.08	.08	.08
		.99	.99	.99	.08				.08	.08	.08	.08
		.98	.98	.98	.06				.06	.06	.06	.06
		.97	.97	.97	.03				.03	.03	.03	.03
	18	1.00	1.00	1.00	.35		21	07-09	1.00	.35	.35	.35
		.99	.99	.99	.33				.99	.33	.33	.33
		.98	.98	.98	.28				.98	.28	.28	.28
		.97	.97	.97	.17				.97	.17	.17	.17
	19-21	1.00	1.00	1.00	.08		21	10-14	1.00	1.00	1.00	.35
		.99	.99	.99	.08				.99	.99	.99	.33
		.98	.98	.98	.06				.98	.98	.98	.28
		.97	.97	.97	.03				.97	.97	.97	.17
	22-23	1.00	1.00	1.00	.55		21	15-23	1.00	1.00	1.00	.55
		.99	.99	.99	.52				.99	.99	.99	.52
		.98	.98	.98	.43				.98	.98	.98	.43
		.97	.97	.97	.28				.97	.97	.97	.28

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES
22	00	1.00	1.00	.77	.35	90°
		.99	.99	.73	.33	50°
		.98	.98	.66	.28	30°
		.97	.97	.47	.17	10°
22	01-02	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.98	.98	.06	.06	
		.97	.97	.03	.03	
22	03-06	1.00	.09	.08	.08	
		.99	.08	.08	.08	
		.98	.06	.06	.06	
		.97	.03	.03	.03	
22	07-09	1.00	1.00	.08	.08	
		.99	.99	.08	.08	
		.08	.98	.06	.06	
		.97	.97	.03	.03	
22	10-23	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
23	00-03	1.00	1.00	1.00	.35	
		.99	.99	.99	.33	
		.98	.98	.98	.28	
		.97	.97	.97	.17	
23	04-09	1.00	1.00	1.00	.08	
		.99	.99	.99	.08	
		.98	.98	.98	.06	
		.97	.97	.97	.03	
23	10-14	1.00	1.00	1.00	.55	
		.99	.99	.99	.52	
		.98	.98	.98	.43	
		.97	.97	.97	.28	
23	15-20	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
23	21-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
24	00-05	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
24	06	.08	.08	.08	.08	
		.08	.08	.08	.08	
		.06	.06	.06	.06	
		.03	.03	.03	.03	
24	07-08	1.00	1.00	.89	.89	
		.99	.99	.87	.87	
		.98	.98	.83	.83	
		.97	.97	.72	.72	
24	09-20	1.00	1.00	1.00	.83	
		.99	.99	.99	.81	
		.98	.98	.98	.75	
		.97	.97	.97	.58	
24	21-23	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
25	00-03	1.00	1.00	1.00	1.00	
		.99	.99	.99	.99	
		.98	.98	.98	.98	
		.97	.97	.97	.97	
25	04	1.00	1.00	1.00	.96	
		.99	.99	.99	.94	
		.98	.98	.98	.92	
		.97	.97	.97	.84	
25	05	1.00	1.00	1.00	.68	
		.99	.99	.99	.63	
		.98	.98	.98	.55	
		.97	.97	.97	.38	

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
	06-09	1.00	1.00	1.00	.35	90°	27	11-20	1.00	1.00	1.00	.35
		.99	.99	.99	.33	50°			.99	.99	.99	.33
		.98	.98	.98	.28	30°			.98	.98	.98	.28
		.97	.97	.97	.17	10°			.97	.97	.97	.17
[illegible]	10-13	1.00	1.00	1.00	.77		27	21-23	1.00	1.00	1.00	.55
		.99	.99	.99	.73				.99	.99	.99	.52
		.98	.98	.98	.66				.98	.98	.98	.43
		.97	.97	.97	.47				.97	.97	.97	.2[illegible]
25	14-18	1.00	1.00	1.00	.83		28	00-06	1.00	1.00	1.00	[illegible]
		.99	.99	.99	.81				.99	.99	.99	[illegible]
		.98	.98	.98	.75				.98	.98	.98	.4[illegible]
		.97	.97	.97	.58				.97	.97	.97	.[illegible]
25	19-23	1.00	1.00	1.00	1.00		28	07-14	1.00	1.00	1.00	.33
		.99	.99	.99	.99				.99	.99	.99	.8[illegible]
		.98	.98	.98	.98				.98	.98	.98	.75
		.97	.97	.97	.97				.97	.97	.97	.5[illegible]
26	00-15	1.00	1.00	1.00	1.00		28	15-23	1.00	1.00	1.00	1.00
		.99	.99	.99	.99				.99	.99	.99	.9[illegible]
		.98	.98	.98	.98				.98	.98	.98	.98
		.97	.97	.97	.97				.97	.97	.97	.97
26	16-17	1.00	1.00	1.00	.77		29	00-04	1.00	1.00	1.00	1.00
		.99	.99	.99	.73				.99	.99	.99	.99
		.98	.98	.98	.66				.98	.98	.98	.98
		.97	.97	.97	.47				.97	.97	.97	.97
26	18-23	1.00	1.00	1.00	.35		29	05-09	1.00	1.00	1.00	.89
		.99	.99	.99	.33				.99	.99	.99	.87
		.98	.98	.98	.28				.98	.98	.98	.83
		.97	.97	.97	.17				.97	.97	.97	.72
27	00-05	1.00	1.00	1.00	.08		29	10-15	1.00	1.00	1.00	.77
		.99	.99	.99	.08				.99	.99	.99	.73
		.98	.98	.98	.06				.98	.98	.98	.66
		.97	.97	.97	.03				.97	.97	.97	.47
27	06-09	1.00	1.00	1.00	.35		29	16-19	1.00	1.00	1.00	.68
		.99	.99	.99	.33				.99	.99	.99	.63
		.98	.98	.98	.28				.98	.98	.98	.55
		.97	.97	.97	.17				.97	.97	.97	.38
27	10	1.00	1.00	1.00	.08		29	20	1.00	1.00	1.00	.08
		.99	.99	.99	.08				.99	.99	.99	.08
		.98	.98	.98	.06				.98	.98	.98	.06
		.97	.97	.97	.03				.97	.97	.97	.03

WESTERN AREA
PROBABILITIES OF A CLOUD FREE LINE-OF-SIGHT

JULY

DAY	HOUR(S)	A	B	C	D	LOOK ANGLES	DAY	HOUR(S)	A	B	C	D
29	21-23	1.00	1.00	1.00	.35	90°	31	21-23	1.00	1.00	1.00	.55
		.99	.99	.99	.33	50°			.99	.99	.99	.52
		.98	.98	.98	.28	30°			.98	.98	.98	.43
		.97	.97	.97	.17	10°			.97	.97	.97	.28
30	00-16	1.00	1.00	1.00	.35							
		.99	.99	.99	.33							
		.98	.98	.98	.28							
		.97	.97	.97	.17							
30	17-19	1.00	1.00	1.00	.55							
		.99	.99	.99	.52							
		.98	.98	.98	.43							
		.97	.97	.97	.28							
30	20-23	1.00	1.00	1.00	.68							
		.99	.99	.99	.63							
		.98	.98	.98	.55							
		.97	.97	.97	.38							
31	00	1.00	1.00	1.00	.35							
		.99	.99	.99	.33							
		.98	.98	.98	.28							
		.97	.97	.97	.17							
31	01-04	1.00	1.00	1.00	.77							
		.99	.99	.99	.73							
		.98	.98	.98	.66							
		.97	.97	.97	.47							
31	05-08	1.00	1.00	1.00	.89							
		.99	.99	.99	.87							
		.98	.98	.98	.83							
		.97	.97	.97	.72							
31	09-14	1.00	1.00	1.00	.96							
		.99	.99	.99	.94							
		.98	.98	.98	.92							
		.97	.97	.97	.84							
31	15-17	1.00	1.00	1.00	.68							
		.99	.99	.99	.63							
		.98	.98	.98	.55							
		.97	.97	.97	.38							
31	18-20	1.00	1.00	1.00	.35							
		.99	.99	.99	.33							
		.98	.98	.98	.28							
		.97	.97	.97	.17							

ATMOSPHERIC SCIENCES RESEARCH REPORTS

1. Lindberg, J. D., "An Improvement to a Method for Measuring the Absorption Coefficient of Atmospheric Dust and other Strongly Absorbing Powders," ECOM-5565, July 1975.

2. Avara, Elton P., "Mesoscale Wind Shears Derived from Thermal Winds," ECOM-5566, July 1975.

3. Gomez, Richard B., and Joseph H. Pierluissi, "Incomplete Gamma Function Approximation for King's Strong-Line Transmittance Model," ECOM-5567, July 1975.

4. Blanco, A. J., and B. F. Engebos, "Ballistic Wind Weighting Functions for Tank Projectiles," ECOM-5568, August 1975.

5. Taylor, Fredrick J., Jack Smith, and Thomas H. Pries, "Crosswind Measurements through Pattern Recognition Techniques," ECOM-5569, July 1975.

6. Walters, D. L., "Crosswind Weighting Functions for Direct-Fire Projectiles," ECOM-5570, August 1975.

7. Duncan, Louis D., "An Improved Algorithm for the Iterated Minimal Information Solution for Remote Sounding of Temperature," ECOM-5571, August 1975.

8. Robbiani, Raymond L., "Tactical Field Demonstration of Mobile Weather Radar Set AN/TPS-41 at Fort Rucker, Alabama," ECOM-5572, August 1975.

9. Miers, B., G. Blackman, D. Langer, and N. Lorimier, "Analysis of SMS/GOES Film Data," ECOM-5573, September 1975.

10. Manquero, Carlos, Louis Duncan, and Rufus Bruce, "An Indication from Satellite Measurements of Atmospheric CO_2 Variability," ECOM-5574, September 1975.

11. Petracca, Carmine, and James D. Lindberg, "Installation and Operation of an Atmospheric Particulate Collector," ECOM-5575, September 1975.

12. Avara, Elton P., and George Alexander, "Empirical Investigation of Three Iterative Methods for Inverting the Radiative Transfer Equation," ECOM-5576, October 1975.

13. Alexander, George D., "A Digital Data Acquisition Interface for the SMS Direct Readout Ground Station - Concept and Preliminary Design," ECOM-5577, October 1975.

14. Cantor, Israel, "Enhancement of Point Source Thermal Radiation Under Clouds in a Nonattenuating Medium," ECOM-5578, October 1975.

15. Norton, Colburn, and Glenn Hoidale, "The Diurnal Variation of Mixing Height by Month over White Sands Missile Range, NM," ECOM-5579, November 1975.

16. Avara, Elton P., "On the Spectrum Analysis of Binary Data," ECOM-5580, November 1975.

17. Taylor, Fredrick J., Thomas H. Pries, and Chao-Huan Huang, "Optimal Wind Velocity Estimation," ECOM-5581, December 1975.

18. Avara, Elton P., "Some Effects of Autocorrelated and Cross-Correlated Noise on the Analysis of Variance," ECOM-5582, December 1975.

19. Gillespie, Patti S., R. L. Armstrong, and Kenneth O. White, "The Spectral Characteristics and Atmospheric CO_2 Absorption of the Ho^{+3}:YLF Laser at 2.05μm," ECOM-5583, December 1975.

20. Novlan, David J., "An Empirical Method of Forecasting Thunderstorms for the White Sands Missile Range," ECOM-5584, February 1976.

21. Avara, Elton P., "Randomization Effects in Hypothesis Testing with Autocorrelated Noise," ECOM-5585, February 1976.

22. Watkins, Wendell R., "Improvements in Long Path Absorption Cell Measurement," ECOM-5586, March 1976.

23. Thomas, Joe, George D. Alexander, and Marvin Dubbin, "SATTEL - An Army Dedicated Meteorological Telemetry System," ECOM-5587, March 1976.

24. Kennedy, Bruce W., and Delbert Bynum, "Army User Test Program for the RDT&E-XM-75 Meteorological Rocket," ECOM-5588, April 1976.

25. Barnett, Kenneth M., "A Description of the Artillery Meteorological Comparisons at White Sands Missile Range, October 1974 - December 1974 ('PASS' - Prototype Artillery [Meteorological] Subsystem)," ECOM-5589, April 1976.

26. Miller, Walter B., "Preliminary Analysis of Fall-of-Shot From Project 'PASS'," ECOM-5590, April 1976.

27. Avara, Elton P., "Error Analysis of Minimum Information and Smith's Direct Methods for Inverting the Radiative Transfer Equation," ECOM-5591, April 1976.

28. Yee, Young P., James D. Horn, and George Alexander, "Synoptic Thermal Wind Calculations from Radiosonde Observations Over the Southwestern United States," ECOM-5592, May 1976.

29. Duncan, Louis D., and Mary Ann Seagraves, "Applications of Empirical Corrections to NOAA-4 VTPR Observations," ECOM-5593, May 1976.

30. Miers, Bruce T., and Steve Weaver, "Applications of Meteorological Satellite Data to Weather Sensitive Army Operations," ECOM-5594, May 1976.

31. Sharenow, Moses, "Redesign and Improvement of Balloon ML-566," ECOM-5595, June 1976.

32. Hansen, Frank V., "The Depth of the Surface Boundary Layer," ECOM-5596, June 1976.

33. Pinnick, R. G., and E. B. Stenmark, "Response Calculations for a Commerical Light-Scattering Aerosol Counter," ECOM-5597, July 1976.

34. Mason, J., and G. B. Hoidale, "Visibility as an Estimator of Infrared Transmittance," ECOM-5598, July 1976.

35. Bruce, Rufus E., Louis D. Duncan, and Joseph H. Pierluissi, "Experimental Study of the Relationship Between Radiosonde Temperatures and Radiometric-Area Temperatures," ECOM-5599, August 1976.

36. Duncan, Louis D., "Stratospheric Wind Shear Computed from Satellite Thermal Sounder Measurements," ECOM-5800, September 1976.

37. Taylor, F., P. Mohan, P. Joseph, and T. Pries, "An All Digital Automated Wind Measurement System," ECOM-5801, September 1976.

38. Bruce, Charles, "Development of Spectrophones for CW and Pulsed Radiation Sources," ECOM-5802, September 1976.

39. Duncan, Louis D., and Mary Ann Seagraves, "Another Method for Estimating Clear Column Radiances," ECOM-5803, October 1976.

40. Blanco, Abel J., and Larry E. Taylor, "Artillery Meteorological Analysis of Project Pass," ECOM-5804, October 1976.

41. Miller, Walter, and Bernard Engebos, "A Mathematical Structure for Refinement of Sound Ranging Estimates," ECOM-5805, November 1976.

42. Gillespie, James B., and James D. Lindberg, "A Method to Obtain Diffuse Reflectance Measurements from 1.0 and 3.0μm Using a Cary 17I Spectrophotometer," ECOM-5806, November 1976.

43. Rubio, Roberto, and Robert O. Olsen, "A Study of the Effects of Temperature Variations on Radio Wave Absorption," ECOM-5807, November 1976.

44. Ballard, Harold N., "Temperature Measurements in the Stratosphere from Balloon-Borne Instrument Platforms, 1968-1975," ECOM-5808, December 1976.

45. Monahan, H. H., "An Approach to the Short-Range Prediction of Early Morning Radiation Fog," ECOM-5809, January 1977.

46. Engebos, Bernard Francis, "Introduction to Multiple State Multiple Action Decision Theory and Its Relation to Mixing Structures," ECOM-5810, January 1977.

47. Low, Richard D. H., "Effects of Cloud Particles on Remote Sensing from Space in the 10-Micrometer Infrared Region," ECOM-5811, January 1977.

48. Bonner, Robert S., and R. Newton, "Application of the AN/GVS-5 Laser Rangefinder to Cloud Base Height Measurements," ECOM-5812, February 1977.

49. Rubio, Roberto, "Lidar Detection of Subvisible Reentry Vehicle Erosive Atmospheric Material," ECOM-5813, March 1977.

50. Low, Richard D. H., and J. D. Horn, "Mesoscale Determination of Cloud-Top Height: Problems and Solutions," ECOM-5814, March 1977.

51. Duncan, Louis D., and Mary Ann Seagraves, "Evaluation of the NOAA-4 VTPR Thermal Winds for Nuclear Fallout Predictions," ECOM-5815, March 1977.

52. Randhawa, Jagir S., M. Izquierdo, Carlos McDonald, and Zvi Salpeter, "Stratospheric Ozone Density as Measured by a Chemiluminescent Sensor During the Stratcom VI-A Flight," ECOM-5816, April 1977.

53. Rubio, Roberto, and Mike Izquierdo, "Measurements of Net Atmospheric Irradiance in the 0.7- to 2.8-Micrometer Infrared Region," ECOM-5817, May 1977.

54. Ballard, Harold N., Jose M. Serna, and Frank P. Hudson, Consultant for Chemical Kinetics, "Calculation of Selected Atmospheric Composition Parameters for the Mid-Latitude, September Stratosphere," ECOM-5818, May 1977.

55. Mitchell, J. D., R. S. Sagar, and R. O. Olsen, "Positive Ions in the Middle Atmosphere During Sunrise Conditions," ECOM-5819, May 1977.

56. White, Kenneth O., Wendell R. Watkins, Stuart A. Schleusener, and Ronald L. Johnson, "Solid-State Laser Wavelength Identification Using a Reference Absorber," ECOM-5820, June 1977.

57. Watkins, Wendell R., and Richard G. Dixon, "Automation of Long-Path Absorption Cell Measurements," ECOM-5821, June 1977.

58. Taylor, S. E., J. M. Davis, and J. B. Mason, "Analysis of Observed Soil Skin Moisture Effects on Reflectance," ECOM-5822, June 1977.

59. Duncan, Louis D., and Mary Ann Seagraves, "Fallout Predictions Computed from Satellite Derived Winds," ECOM-5823, June 1977.

60. Snider, D. E., D. G. Murcray, F. H. Murcray, and W. J. Williams, "Investigation of High-Altitude Enhanced Infrared Background Emissions," (U), SECRET, ECOM-5824, June 1977.

51. Dubbin, Marvin H., and Dennis Hall, "Synchronous Meteorological Satellite Direct Readout Ground System Digital Video Electronics," ECOM-5825, June 1977.

52. Miller, W., and B. Engebos, "A Preliminary Analysis of Two Sound Ranging Algorithms," ECOM-5826, July 1977.

53. Kennedy, Bruce W., and James K. Luers, "Ballistic Sphere Techniques for Measuring Atmospheric Parameters," ECOM-5827, July 1977.

54. Duncan, Louis D., "Zenith Angle Variation of Satellite Thermal Sounder Measurements," ECOM-5828, August 1977.

55. Hansen, Frank V., "The Critical Richardson Number," ECOM-5829, September 1977.

56. Ballard, Harold N., and Frank P. Hudson (Compilers), "Stratospheric Composition Balloon-Borne Experiment," ECOM-5830, October 1977.

57. Barr, William C., and Arnold C. Peterson, "Wind Measuring Accuracy Test of Meteorological Systems," ECOM-5831, November 1977.

58. Burridge, G. A., and F. V. Hansen, "Atmospheric Diffusion: Similarity Theory and Empirical Derivations for Use in Boundary Layer Diffusion Problems," ECOM-5832, November 1977.

59. Lee, Richard D. H., "The Internal Cloud Radiation Field and a Technique for Determining Cloud Blackness," ECOM-5833, December 1977.

60. Watkins, Wendell R., Kenneth O. White, Charles W. Bruce, Donald L. Walters, and James D. Lindberg, "Measurements Required for Prediction of High Energy Laser Transmission," ECOM-5834, December 1977.

61. Fabio, Robert, "Investigation of Abrupt Decreases in Atmospherically Backscattered Laser Energy," ECOM-5835, December 1977.

72. Monahan, H. H., and R. M. Cionco, "An Interpretative Review of Existing Capabilities for Measuring and Forecasting Selected Weather Variables (Emphasizing Remote Means)," ASL-TR-0001, January 1978.

73. Heaps, Melvin G., "The 1979 Solar Eclipse and Validation of D-Region Models," ASL-TR-0002, March 1978.

74. Jennings, S. G., and J. B. Gillespie, "M.I.E. Theory Sensitivity Studies - The Effects of Aerosol Complex Refractive Index and Size Distribution Variations on Extinction and Absorption Coefficients, Part II: Analysis of the Computational Results," ASL-TR-0003, March 1978.

75. White, Kenneth O., et al, "Water Vapor Continuum Absorption in the 3.5μm to 4.0μm Region," ASL-TR-0004, March 1978.

76. Olsen, Robert O., and Bruce W. Kennedy, "ABRES Pretest Atmospheric Measurements," ASL-TR-0005, April 1978.

77. Ballard, Harold N., Jose M. Serna, and Frank P. Hudson, "Calculation of Atmospheric Composition in the High Latitude September Stratosphere," ASL-TR-0006, May 1978.

78. Watkins, Wendell R., et al, "Water Vapor Absorption Coefficients at HF Laser Wavelengths," ASL-TR-0007, May 1978.

79. Hansen, Frank V., "The Growth and Prediction of Nocturnal Inversions," ASL-TR-0008, May 1978.

80. Samuel, Christine, Charles Bruce, and Ralph Brewer, "Spectrophone Analysis of Gas Samples Obtained at Field Site," ASL-TR-0009, June 1978.

81. Pinnick, R. G., et al., "Vertical Structure in Atmospheric Fog and Haze and its Effects on IR Extinction," ASL-TR-0010, July 1978.

82. Low, Richard D. H., Louis D. Duncan, and Richard B. Gomez, "The Microphysical Basis of Fog Optical Characterization," ASL-TR-0011, August 1978.

83. Heaps, Melvin G., "The Effect of a Solar Proton Event on the Minor Neutral Constituents of the Summer Polar Mesosphere," ASL-TR-0012, August 1978.

84. Mason, James B., "Light Attenuation in Falling Snow," ASL-TR-0013, August 1978.

85. Blanco, Abel J., "Long-Range Artillery Sound Ranging: 'PASS' Meteorological Application," ASL-TR-0014, September 1978.

86. Heaps, M. G., and F. E. Niles, "Modeling of Ion Chemistry of the D-Region: A Case Study Based Upon the 1966 Total Solar Eclipse," ASL-TR-0015, September 1978.

87. Jennings, S. G., and R. G. Pinnick, "Effects of Particulate Complex Refractive Index and Particle Size Distribution Variations on Atmospheric Extinction and Absorption for Visible Through Middle-Infrared Wavelengths," ASL-TR-0016, September 1978.

88. Watkins, Wendell R., Kenneth O. White, Lanny R. Bower, and Brian Z. Sojka, "Pressure Dependence of the Water Vapor Continuum Absorption in the 3.5- to 4.0-Micrometer Region," ASL-TR-0017, September 1978.

89. Miller, W. B., and B. F. Engebos, "Behavior of Four Sound Ranging Techniques in an Idealized Physical Environment," ASL-TR-0018, September 1978.

90. Gomez, Richard G., "Effectiveness Studies of the CBU-88/B Bomb, Cluster, Smoke Weapon," (U), CONFIDENTIAL ASL-TR-0019, September 1978.

91. Miller, August, Richard C. Shirkey, and Mary Ann Seagraves, "Calculation of Thermal Emission from Aerosols Using the Doubling Technique," ASL-TR-0020, November 1978.

92. Lindberg, James D., et al, "Measured Effects of Battlefield Dust and Smoke on Visible, Infrared, and Millimeter Wavelengths Propagation: A Preliminary Report on Dusty Infrared Test-I (DIRT-I)," ASL-TR-0021, January 1979.

93. Kennedy, Bruce W., Arthur Kinghorn, and B. R. Hixon, "Engineering Flight Tests of Range Meteorological Sounding System Radiosonde," ASL-TR-0022, February 1979.

94. Rubio, Roberto, and Don Hoock, "Microwave Effective Earth Radius Factor Variability at Wiesbaden and Balboa," ASL-TR-0023, February 1979.

95. Low, Richard D. H., "A Theoretical Investigation of Cloud/Fog Optical Properties and Their Spectral Correlations, "ASL-TR-0024, February 1979.

96. Pinnick, R. G., and H. J. Auvermann, "Response Characteristics of Knollenberg Light-Scattering Aerosol Counters," ASL-TR-0025, February 1979.

97. Heaps, Melvin G., Robert O. Olsen, and Warren W. Berning, "Solar Eclipse 1979, Atmospheric Sciences Laboratory Program Overview," ASL-TR-0026, February 1979.

98. Blanco, Abel J., "Long-Range Artillery Sound Ranging: 'PASS' GR-8 Sound Ranging Data," ASL-TR-0027, March 1979.

99. Kennedy, Bruce W., and Jose M. Serna, "Meteorological Rocket Network System Reliability," ASL-TR-0028, March 1979.

100. Swingle, Donald M., "Effects of Arrival Time Errors in Weighted Range Equation Solutions for Linear Base Sound Ranging," ASL-TR-0029, April 1979.

101. Umstead, Robert K., Ricardo Pena, and Frank V. Hansen, "KWIK: An Algorithm for Calculating Munition Expenditures for Smoke Screening/Obscuration in Tactical Situations," ASL-TR-0030, April 1979.

102. D'Arcy, Edward M., "Accuracy Validation of the Modified Nike Hercules Radar," ASL-TR-0031, May 1979.

103. Rodriguez, Ruben, "Evaluation of the Passive Remote Crosswind Sensor," ASL-TR-0032, May 1979.

104. Barber, T. L., and R. Rodriguez, "Transit Time Lidar Measurement of Near-Surface Winds in the Atmosphere," ASL-TR-0033, May 1979.

105. Low, Richard D. H., Louis D. Duncan, and Y. Y. Roger R. Hsiao, "Microphysical and Optical Properties of California Coastal Fogs at Fort Ord," ASL-TR-0034, June 1979.

106. Rodriguez, Ruben, and William J. Vechione, "Evaluation of the Saturation Resistant Crosswind Sensor," ASL-TR-0035, July 1979.

107. Ohmstede, William D., "The Dynamics of Material Layers," ASL-TR-0036, July 1979.

108. Pinnick, R. G., S. G. Jennings, Petr Chylek, and H. J. Auvermann, "Relationships between IR Extinction Absorption, and Liquid Water Content of Fogs," ASL-TR-0037, August 1979.

109. Rodriguez, Ruben, and William J. Vechione, "Performance Evaluation of the Optical Crosswind Profiler," ASL-TR-0038, August 1979.

110. Miers, Bruce T., "Precipitation Estimation Using Satellite Data," ASL-TR-0039, September 1979.

111. Dickson, David H., and Charles M. Sonnenschein, "Helicopter Remote Wind Sensor System Description," ASL-TR-0040, September 1979.

112. Heaps, Melvin G., and Joseph M. Heimerl, "Validation of the Dairchem Code, I: Quiet Midlatitude Conditions," ASL-TR-0041, September 1979.

113. Bonner, Robert S., and William J. Lentz, "The Visioceilometer: A Portable Cloud Height and Visibility Indicator," ASL-TR-0042, October 1979.

114. Cohn, Stephen L., "The Role of Atmospheric Sulfates in Battlefield Obscurations," ASL-TR-0043, October 1979.

115. Fawbush, E. J., et al, "Characterization of Atmospheric Conditions at the High Energy Laser System Test Facility (HELSTF), White Sands Missile Range, New Mexico, Part I, 24 March to 8 April 1977," ASL-TR-0044, November 1979.

116. Barber, Ted L., "Short-Time Mass Variation in Natural Atmospheric Dust," ASL-TR-0045, November 1979.

117. Low, Richard D. H., "Fog Evolution in the Visible and Infrared Spectral Regions and its Meaning in Optical Modeling," ASL-TR-0046, December 1979.

118. Duncan, Louis D., et al, "The Electro-Optical Systems Atmospheric Effects Library, Volume I: Technical Documentation," ASL-TR-0047, December 1979.

119. Shirkey, R. C., et al, "Interim E-O SAEL, Volume II, Users Manual," ASL-TR-0048, December 1979.

120. Kobayashi, H. K., "Atmospheric Effects on Millimeter Radio Waves," ASL-TR-0049, January 1980.

121. Seagraves, Mary Ann, and Louis D. Duncan, "An Analysis of Transmittances Measured Through Battlefield Dust Clouds," ASL-TR-0050, February 1980.

122. Dickson, David H., and Jon E. Ottesen, "Helicopter Remote Wind Sensor Flight Test," ASL-TR-0051, February 1980.

123. Pinnick, R. G., and S. G. Jennings, "Relationships Between Radiative Properties and Mass Content of Phosphoric Acid, HC, Petroleum Oil, and Sulfuric Acid Military Smokes," ASL-TR-0052, April 1980.

124. Hinds, B. D., and J. B. Gillespie, "Optical Characterization of Atmospheric Particulates on San Nicolas Island, California," ASL-TR-0053, April 1980.

125. Miers, Bruce T., "Precipitation Estimation for Military Hydrology," ASL-TR-0054, April 1980.

126. Stenmark, Ernest B., "Objective Quality Control of Artillery Computer Meteorological Messages," ASL-TR-0055, April 1980.

127. Duncan, Louis D., and Richard D. H. Low, "Bimodal Size Distribution Models for Fogs at Meppen, Germany," ASL-TR-0056, April 1980.

128. Olsen, Robert O., and Jagir S. Randhawa, "The Influence of Atmospheric Dynamics on Ozone and Temperature Structure," ASL-TR-0057, May 1980.

129. Kennedy, Bruce W., et al, "Dusty Infrared Test-II (DIRT-II) Program," ASL-TR-0058, May 1980.

130. Heaps, Melvin G., Robert O. Olsen, Warren Berning, John Cross, and Arthur Gilcrease, "1979 Solar Eclipse, Part I - Atmospheric Sciences Laboratory Field Program Summary," ASL-TR-0059, May 1980

131. Miller, Walter B., "User's Guide for Passive Target Acquisition Program Two (PTAP-2)," ASL-TR-0060, June 1980.

132. Holt, E. H., H. H. Monahan, and E. J. Fawbush, "Atmospheric Data Requirements for Battlefield Obscuration Applications," ASL-TR-0061, June 1980.

133. Shirkey, Richard C., August Miller, George H. Goedecke, and Yugal Behl, "Single Scattering Code AGAUSX: Theory, Applications, Comparisons, and Listing," ASL-TR-0062, July 1980.

134. Sojka, Brian Z., and Kenneth O. White, "Evaluation of Specialized Photoacoustic Absorption Chambers for Near-Millimeter Wave (NMMW) Propagation Measurements," ASL-TR-0063, August 1980.

135. Bruce, Charles W., Young Paul Yee, and S. G. Jennings, "In Situ Measurement of the Ratio of Aerosol Absorption to Extinction Coefficient," ASL-TR-0064, August 1980.

136. Yee, Young Paul, Charles W. Bruce, and Ralph J. Brewer, "Gaseous/Particulate Absorption Studies at WSMR using Laser Sourced Spectrophones," ASL-TR-0065, June 1980.

137. Lindberg, James D., Radon B. Loveland, Melvin Heaps, James B. Gillespie, and Andrew F. Lewis, "Battlefield Dust and Atmospheric Characterization Measurements During West German Summertime Conditions in Support of Grafenwohr Tests," ASL-TR-0066 September 1980.

138. Vechione, W. J., "Evaluation of the Environmental Instruments, Incorporated Series 200 Dual Component Wind Set," ASL-TR-0067, September 1980.

139. Bruce, C. W., Y. P. Yee, B. D. Hinds, R. G. Pinnick, R. J. Brewer, and J. Minjares, "Initial Field Measurements of Atmospheric Absorption at 9μm to 11μm Wavelengths," ASL-TR-0068, October 1980.

140. Heaps, M. G., R. O. Olsen, K. D. Baker, D. A. Burt, L. C. Howlett, L. L. Jensen, E. F. Pound, and G. D. Allred, "1979 Solar Eclipse: Part II Initial Results for Ionization Sources, Electron Density, and Minor Neutral Constituents," ASL-TR-0069, October 1980.

141. Low, Richard D. H., "One-Dimensional Cloud Microphysical Models for Central Europe and their Optical Properties," ASL-TR-0070, October 1980.

142. Duncan, Louis D., James D. Lindberg, and Radon B. Loveland, "An Empirical Model of the Vertical Structure of German Fogs," ASL-TR-0071, November 1980.

143. Duncan, Louis D., 1981, "EOSAEL 80, Volume I, Technical Documentation," ASL-TR-0072, January 1981.

144. Shirkey, R. C., and S. G. O'Brien, "EOSAEL 80, Volume II, Users Manual," ASL-TR-0073, January 1981.

145. Bruce, C. W., "Characterization of Aerosol Nonlinear Effects on a High-Power CO_2 Laser Beam", ASL-TR-0074 (Draft), February 1981.

146. Duncan, Louis D., and James D. Lindberg, "Air Mass Considerations in Fog Optical Modeling," ASL-TR-0075, February 1981.

147. Kunkel, Kenneth E., "Evaluation of a Tethered Kite Anemometer," ASL-TR-0076, February 1981.

148. Kunkel, K. E., et al, "Characterization of Atmospheric Conditions at the High Energy Laser System Test Facility (HELSTF) White Sands Missile Range, New Mexico, August 1977 to October 1978, Part II, Optical Turbulence, Wind, Water Vapor Pressure, Temperature," ASL-TR-0077, February 1981.

149. Miers, Bruce T., "Weather Scenarios for Central Germany," ASL-TR-0078, February 1981.

DISTRIBUTION LIST

Commander
US Army Aviation Center
ATTN: ATZQ-D-MA
Fort Rucker, AL 36362

Chief, Atmospheric Sciences Div
Code ES-81
NASA
Marshall Space Flight Center, AL 35812

Commander
US Army Missile Command
ATTN: DRDMI-RRA/Dr.O. M. Essenwanger
Redstone Arsenal, AL 35809

Commander
US Army Missile Command
ATTN: DRSMI-OG (B. W. Fowler)
Redstone Arsenal, AL 35809

Commander
US Army Missile R&D Command
ATTN: DRDMI-TEM (R. Haraway)
Redstone Arsenal, AL 35809

Redstone Scientific Information Center
ATTN: DRSMI-RPRD (Documents)
US Army Missile Command
Redstone Arsenal, AL 35809

Commander
HQ, Fort Huachuca
ATTN: Tech Ref Div
Fort Huachuca, AZ 85613

Commander
US Army Intelligence
Center & School
ATTN: ATSI-CD-MD
Fort Huachuca, AZ 85613

Commander
US Army Yuma Proving Ground
ATTN: Technical Library
Bldg 2105
Yuma, AZ 85364

Dr. Frank D. Eaton
Geophysical Institute
University of Alaska
Fairbanks, AK 99701

Naval Weapons Center
Code 3918
ATTN: Dr. A. Shlanta
China Lake, CA 93555

Commanding Officer
Naval Envir Prediction Rsch Facility
ATTN; Library
Monterey, CA 93940

Sylvania Elec Sys Western Div
ATTN: Technical Reports Lib
PO Box 205
Mountain View, CA 94040

Geophysics Officer
PMTC Code 3250
Pacific Missile Test Center
Point Mugu, CA 93042

Commander
Naval Ocean Systems Center
(Code 4473)
ATTN: Technical Library
San Diego, CA 92152

Meteorologist in Charge
Kwajalein Missile Range
PO Box 67
APO San Francisco, CA 96555

Director
NOAA/ERL/APCL R31
RB3-Room 567
Boulder, CO 80302

Dr.B. A. Silverman D-1200
Office of Atmos Resources Management
Water and Power Resources Service
PO Box 25007Denver Federal Center, Bldg. 67
Denver, CO 80225

Hugh W. Albers (Executive Secretary)
CAO Subcommittee on Atmos Rsch
National Science Foundation Room 510
Washington, DC 2055

Dr. Eugene W. Bierly
Director, Division of Atmos Sciences
National Scinece Foundation
1800 G Street, N.W.
Washington, DC 20550

Commanding Officer
Naval Research Laboratory
Code 2627
Washington, DC 20375

Defense Communications Agency
Technical Library Center
Code 222
Washington, DC 20305

Director
Naval Research Laboratory
Code 5530
Washington, DC 20375

Dr. J. M. MacCallum
Naval Research Laboratory
Code 1409
Washington, DC 20375

HQDA (DAEN-RDM/Dr. de Percin)
Washington, DC 20314

The Library of Congress
ATTN: Exchange & Gift Div
Washington, DC 20540
2

Mil Asst for Atmos Sci Ofc of
the Undersecretary of Defense
for Rsch & Engr/E&LS - RM 3D129
The Pentagon
Washington, DC 20301

AFATL/DLODL
Technical Library
Eglin AFB, FL 32542

Naval Training Equipment Center
ATTN: Technical Information Center
Orlando, FL 32813

Technical Library
Chemical Systems Laboratory
Aberdeen Proving Ground, MD 21010

US Army Materiel Systems
Analysis Activity
ATTN: DRXSY-MP
APG, MD 21005

Commander
ERADCOM
ATTN: DRDEL-PA/ILS/-ED
2800 Powder Mill Road
Adelphi, MD 20783

Commander
ERADCOM
ATTN: DRDEL-ST-T (Dr. B. Zarwyn)
2800 Powder Mill Road
Adelphi, MD 20783
02

Commander
Harry Diamond Laboratories
ATTN: DELHD-CO
2800 Powder Mill Road
Adelphi, MD 20783

Chief
Intel Mat Dev & Spt Ofc
ATTN: DELEW-WL-I
Bldg 4554
Fort George G. Mead, MD 20755

Acquisitions Section, IRDB-D823
Library & Info Svc Div, NOAA
6009 Executive Blvd.
Rockville, MD 20752

Naval Surface Weapons Center
White Oak Library
Silver Spring, MD 20910

Air Force Geophysics Laboratory
ATTN: LCC (A. S. Carten, Jr.)
Hanscom AFB, MA 01731

Air Force Geophysics Laboratory
ATTN: LYD
Hanscom AFB, MA 01731

Meteorology Division
AFGL/LY
Hanscom AFB, MA 01731

The Environmental Research
Institute of MI
ATTN: IRIA Library
PO Box 8618
Ann Arbor, MI 48107

Mr. William A. Main
USDA Forest Service
1407 S. Harrison Road
East Lansing, MI 48823

Dr. A. D. Belmont
Research Division
PO Box 1249
Control Data Corp
Minneapolis, MN 55440

Commander
Naval Oceanography Command
Bay St. Louis, MS 39529

Commanding Officer
US Army Armament R&D Command
ATTN; DRDAR-TSS Bldg 59
Dover, NJ 07801

Commander
ERADCOM Scientific Advisor
ATTN: DRDEL-SA
Fort Monmouth, NJ 07703

Commander
ERADCOM Tech Support Activity
ATTN: DELSD-L
Fort Monmouth, NJ 07703

Commander
HQ, US Army Avionics R&D Actv
ATTN: DAVAA-O
Fort Monmouth, NJ 07703

Commander
USA Elect Warfare Lab
ATTN: DELEW-DA (File Cy)
Fort Monmouth, NJ 07703

Commander
US Army Electronics R&D Command
ATTN: DELCS-S
Fort Monmouth, NJ 07703

Commander
US Army Satellite Comm Agency
ATTN: DRCPM-SC-3
Fort Monmouth, NJ 07703

Commander/Director
US Army Combat Survl & Target
Acquisition Laboratory
ATTN: DELCS-D
Fort Monmouth, NJ 07703

Director
Night Vision & Electro-Optics Laboratory
ATTN: DELNV-L (Dr. R. Buser)
Fort Belvoir, VA 22060

Project Manager, FIREFINDER
ATTN: DRCPM-FF
Fort Monmouth, NJ 07703

PM, Firefinder/REMBASS
ATTN: DRCPM-FFR-TM
Fort Monmouth, NJ 07703

6585 TG/WE
Holloman AFB, NM 88330

AFWL/Technical Library (SUL)
Kirtland AFB, NM 87117

AFWL/WE
Kirtland, AFB, NM 87117

TRASANA
ATTN: ATAA-SL (D. Anguiano)
WSMR, NM 88002

Commander
US Army White Sands Missile Range
ATTN: STEWS-PT-AL
White Sands Missile Range, NM 88002

Rome Air Development Center
ATTN: Documents Library
TSLD (Bette Smith)
Griffiss AFB, NY 13441

Environmental Protection Agency
Meteorology Laboratory, MD 80
Rsch Triangle Park, NC 27711

US Army Research Office
ATTN: DRXRO-PP
PO Box 12211
Rsch Triangle Park, NC 27709

Commandant
US Army Field Artillery School
ATTN: ATSF-CD-MS (Mr. Farmer)
Fort Sill, OK 73503

Commandant
US Army Field Artillery School
ATTN: ATSF-CF-R
Fort Sill, OK 73503

Commandant
US Army Field Artillery School
ATTN: Morris Swett Library
Fort Sill, OK 73503

Commander
US Army Dugway Proving Ground
ATTN: STEDP-MT-DA-M
(Mr. Paul Carlson)
Dugway, UT 84022

Commander
US Army Dugway Proving Ground
ATTN: MT-DA-L
Dugway, UT 84022

US Army Dugway Proving Ground
ATTN: STEDP-MT-DA-T
(Dr. W. A. Peterson)
Dugway, UT 84022

Inge Dirmhirn, Professor
Utah State University, UMC 48
Logan, UT 84322

Defense Technical Information Center
ATTN: DTIC-DDA-2
Cameron Station, Bldg. 5
Alexandria, VA 22314
12

Commanding Officer
US Army Foreign Sci & Tech Cen
ATTN: DRXST-IS1
220 7th Street, NE
Charlottesville, VA 22901

Naval Surface Weapons Center
Code G65
Dahlgren, VA 22448

Commander
US Army Night Vision
& Electro-Optics Lab
ATTN: DELNV-D
Fort Belvoir, VA 22060

Commander
USATRADOC
ATTN: ATCD-FA
Fort Monroe, VA 23651

Commander
USATRADOC
ATTN: ATCD-IR
Fort Monroe, VA 23651

Dept of the Air Force
5WW/DN
Langley AFB, VA 23665

US Army Nuclear & Cml Agency
ATTN: MONA-WE
Springfield, VA 22150

Director
US Army Signals Warfare Lab
ATTN: DELSW-OS (Dr. Burkhardt)
Vint Hill Farms Station
Warrenton, VA 22186

Commander
US Army Cold Regions Test Cen
ATTN: STECR-OP-PM
APO Seattle, WA 98733


DAT
FILM